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List of Active Professional Observatories

by

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Introduction

Since the first volume of the *American Ephemeris and Nautical Almanac* for 1855, published jointly by the U.S. Naval Observatory (Washington, D.C.) and the Royal Greenwich Observatory (United Kingdom), there has been a section providing positions of 'principal' observatories. Over the years various refinements of the data and formatting changes have occurred. In 1981 the *American Ephemeris and Nautical Almanac* changed its name to *The Astronomical Almanac*. Currently, observatories are listed in Section J of *The Astronomical Almanac*.

For many years the U.S. Naval Observatory's Nautical Almanac Office computed and distributed lunar occultation predictions for observers worldwide. During the course of this project several mailings were made to all observatories listed in *The Astronomical Almanac*, requesting information on current astronomical programs and a list of instruments with associated coordinates. Information was also gathered about the coordinates and relocations of telescopes at various other observatories, both professional and amateur. Some historical data pertaining to the individual observatories were gathered as well. A database was created with information from older correspondence already on file, the correspondence generated by the mailings, and separate correspondence received from the occultation project.

Although the occultation project was discontinued at the U.S. Naval Observatory in 1991, the observatory database continued to be updated from other source material. Most of the information for corrections or additions to *The Astronomical Almanac* observatory list has come from the American Astronomical Society (AAS) directories, André Heck's (University of Strasbourg) directories of astronomical institutions, observatory pamphlets, worldwide web sites, correspondence, and other source materials from the U.S. Naval Observatory Library (see Bibliography). Due to the vast amount of information compiled over the years for this publication, it is not feasible to acknowledge individual contributors.

Since coordinates of telescopes are necessary for the reduction of astronomical observations, and any changes in the location of telescopes are of interest to the astronomical historian, this Circular lists telescopes (and some other instruments) with their coordinates and associated dates of operation, if available. This is a "first draft" for creating a list of currently active professional observatories with their complete list of instruments, past and present. It is hoped and encouraged that readers will provide corrections where needed, as well as any additional information to make the list more complete.

M. R. Lukac is responsible for organizing and maintaining the database. R. J. Miller edited the introduction and index sections for this Circular.

Format of Observatory Listing

The following is a description of the information in each column below the observatory name and address:

Column 1	Aperture of instrument – abbreviations used are B for baseline, D for diameter, H for height, L for length, and R for radius
Column 2	Description of instrument – an instrument may be listed more than once if it has been moved to another location within the observatory boundaries
Column 3	Longitude in degrees, minutes, and seconds of arc (East longitudes are positive)

Column 4 Latitude in degrees, minutes, and seconds of arc (North latitudes are positive)

Column 5 Mean sea level height in meters

Column 6 Type of coordinates:

A = Astronomical
D1 = Doppler determined – WGS 72 datum
G = Geodetic – datum unknown
  AL = Australian datum
  AD = Adindân datum
  CA = Corregio Alegre (Brazil) datum
  CI = Campo Inchauspe (Argentina) datum
  CP = Cape (South Africa) datum
  E1 = European 1979 datum
  EU = European datum
  G1 = GRS 80 datum
  G2 = WGS 84 datum
  G3 = Ordnance Survey of Great Britain (SN) 1980 datum
  GB = Ordnance Survey of Great Britain (1936) datum
  HS = Hermannskogel datum
  IN = Indian datum
  LC = La Canoa (Venezuela) datum
  NA = North American (1927) datum
  NZ = New Zealand datum
  OH = Old Hawaiian datum
  PD = Potsdam datum
  PR = Puerto Rican (1940) datum
  SA = South American datum
  TO = Tokyo datum
S = Satellite determined – datum unknown
S1 = Aerial survey – North American (1983) datum
U = Unknown

Column 7 Instrument information – dates of operation and other information pertaining to the specified instrument at the coordinates indicated (if available). Some examples are:

Former	No longer at specified coordinates (if given) or at observatory.
Inactive	Still at specified coordinates (if given) or observatory, but rarely or never used.
O = 78-mm	Objective = 78-mm
1941+	Began operation in 1941 and is currently operational.
1939-?	Began operation in 1939 and ceased operation (date unknown).
?-c.1980	Date of beginning operation unknown and ceased operation about (circa) 1980.
1835-1838; museum	Operational from 1835 to 1838, then transferred to a museum.

1986+; Mongolia	Began operation in 1986 and is currently operational; located at a site in Mongolia.
10/1962-11/1988	Operational from October 1962 to November 1988.
1861-1972; to Perth Obs.	Operational from 1861 to 1972, then transferred to Perth Observatory.
1961+; from Perkins Obs.	In operation since 1961; instrument was transferred to the specified site from Perkins Observatory.

Special Mention In Reference To The Bibliography

A few special publications should be acknowledged which have been extremely helpful in gathering source data for this Circular. The 2-volume set of *StarGuides* (and its preceding editions) by André Heck of the Astronomical Observatory in Strasbourg, France, was used extensively for address information. If one is working with observatories in general, this set should definitely be on the shelf for reference. Another publication which provided invaluable help with information through its various and timely articles is the monthly magazine *Sky and Telescope*. Several of the editions of the "List of Radio and Radar Astronomy Observatories," from the National Academy of Sciences, Washington, D.C., provided basic coordinate and instrument information for many of the radio observatories. "The Greenwich List of Observatories" by Derek Howse, published in the *Journal of the History of Astronomy* (November 1986), was used to add information about many of the earlier instruments at observatories which are of historical significance. This list should also be on one's reference shelf.

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ALGERIA

Alger Observatory, University of Alger, Route de l'Observatoire, Boîte Postale 63, Bouzaréa, 16340 Alger, Algeria

	OPL-8 Danjon astrolabe	+3 02 06.9	+36 48 07	345	U	
19-cm	Gautier meridian instrument	+3 02 07.9	+36 48 04.8	345	U	
31.8-cm	Coudé equatorial reflector	+3 02 03	+36 47 54	342	EU	
19-cm	reflector	+3 02 03	+36 47 54	345	EU	
75-mm	refractor	+3 02 03	+36 47 54	345	EU	
32-mm	refractor	+3 02 03	+36 47 54	345	EU	
65-mm	Secrétan meridian circle					
25-cm	coelostat					
33-cm	Gautier equatorial photographic reflector					
50-cm	Foucault equatorial reflector					

ARGENTINA

Argentine Radio Astronomy Institute, Casilla de Correo 5, 1894 Villa Elisa (BA), Argentina

30-m	parabolic radio telescope	−58 08 14	−34 52 08	11	G	
30-m	radio telescope on rails					

Bosque Alegre Astrophysical Station, Córdoba Astronomical Observatory, Laprida 854, 5000 Córdoba, Argentina

1.52-m	Warner & Swasey/Fecker reflector	−64 32 48	−31 35 53	1250	A	12/1941+; from Córdoba Obs.
	cometseeker	−64 32 48	−31 35 53	1250	A	

Córdoba Astronomical Observatory, National University of Córdoba, Laprida 854, 5000 Córdoba, Argentina

19-cm	Repsold meridian circle	−64 11 47.4	−31 25 16.4	434	A	Former; to Félix Aguilar Obs.
20-cm	Clark equatorial refractor	−64 11 52.47	−31 25 13.8	442	G	
32-cm	Gautier-Henry equatorial astrograph	−64 11 54.0	−31 25 13.8	442	G	
25-cm	reflector	−64 11 54.0	−31 25 13.8	442	G	
30-cm	Clark equatorial refractor	−64 11 52	−31 25 13.8	442	G	
13-cm	altazimuth telescope	−64 11 52	−31 25 13.8	442	G	
12.5-cm	Brashear-Armillaire equat. photographic tel.					
1.52-m	Warner & Swasey/Fecker reflector					

Dr. Carlos U. Cesco Station, Yale-San Juan Universities, 5405-Barreal, Calingasta, Argentina

50/50-cm	twin astrograph	−69 19 45.03	−31 48 08.2	2348	A	1965+; San Juan Univ. telescope
18-cm	transit circle	−69 19 54.0	−31 48 10.0	2296	A	1967-07/1973; to U.S. Naval Obs., Washington, DC
76-cm	Perrine Cassegrain reflector					1978+; Córdoba Obs. telescope

El Leoncito Astronomical Complex, Avenida España 1512 Sur, Casilla de Correo 467, 5400 San Juan, Argentina

2.15-m	Boller & Chivens reflector	−69 18 00	−31 47 57	2552	U	02/1986+
1-m	reflector					San Juan Univ. telescope
1.5-m	telescope					

Félix Aguilar Observatory, National University of San Juan, Avenida Benavidez 8175 Oeste, Chimbas, 5413 San Juan, Argentina

	Danjon astrolabe	−68 37 12.60	−31 30 38.8	700	A	
19-cm	Repsold meridian circle	−68 37 11.6	−31 30 38.6	702	A	From Córdoba Obs.
17.5-cm	Steinheil refractor					
	transit instrument					

La Plata Astronomical Observatory, National University of La Plata, Paseo del Bosque s/n, 1900 La Plata (BA), Argentina

19-cm	Repsold meridian circle	−57 55 54.57	−34 54 30.5	17	A	1939-?; former
34-cm	Carte du Ciel astrograph	−57 55 58.2	−34 54 34.6	22	A	
20-cm	equatorial cometseeker	−57 55 54.12	−34 54 33.3	18	A	
43.3-cm	Gautier refractor	−57 55 55.32	−34 54 34.5	27	A	
11-cm	altazimuth telescope					Former
80-cm	Cassegrain reflector	−57 55 55.0	−34 54 34.5	----	A	
	Danjon astrolabe	−67 45 04.95	−53 47 09.4	----	A	1979+; Rio Grande station

National Observatory of Cosmic Physics, Institute of Science and Technology, Avenida Mitre 3100, 1663 San Miguel (BA), Argentina

30-cm	spectroheliograph	−58 43 53	−34 33 22	37	A	
12.5-cm	Secasi telescope	−58 43 52	−34 33 21	26	A	
18-cm	Zeiss equatorial refractor	−58 43 55	−34 33 18	27	A	
15/11-cm	Heyde-Zeiss equatorial refractor	−58 43 51	−34 33 21	26	A	

Naval Observatory, Avenida España 2099, 1107 Buenos Aires, Argentina

	transit instrument	−58 21 18.3	−34 37 18.3	6	U	
	Askania AP-70 visual transit instrument	−58 21 17.91	−34 37 19.4	----	A	
	photographic zenith tube	−57 17 09.45	−35 20 40.6	----	U	Veronica station

ARMENIA

Byurakan Astrophysical Observatory, 378433 Byurakan, Armenia

48-cm	Schmidt camera	+44 17 30	+40 20 07	1500	U	
1.00/1.32-m	Schmidt reflector	+44 30	+40 20	1450	U	1960-?
2.64-m	Cassegrain/Coudé equatorial reflector	+44 18	+40 20	1500	U	10/1976+
40-cm	Maksutov reflector					1950-?
20-cm	Schmidt camera					
25-cm	telescope					1949-?
12.7-cm	double astrograph					1946-?
15-cm	Zeiss double astrograph					1952-?
53-cm	Schmidt reflector					1957-?
50-cm	Cassegrain reflector					1953-?
40-cm	Cassegrain reflector					1951-?
	interferometer					1955-?
10-m	paraboloid					
	fixed cylindrical paraboloid (4)					

AUSTRALIA

Anglo-Australian Observatory, Australian National University, Siding Spring Mountain, Private Bag, Coonabarabran, NSW 2357, Australia

61-cm	reflector	+149 03 39.8	−31 16 25.4	1149	AL	Mt. Stromlo Obs. telescope
3.89-m	Anglo-Australian Grubb-Parsons equat. reflector	+149 03 57.90	−31 16 37.3	1164	AL	06/1975+
1.02-m	equatorial reflector	+149 03 39.4	−31 16 22.0	1150	AL	Mt. Stromlo Obs. telescope
41-cm	reflector	+149 03 37.8	−31 16 23.9	1157	AL	Mt. Stromlo Obs. telescope
20-cm	Schmidt camera	+149 03 37.8	−31 16 23.9	1157	AL	Mounted on 41-cm reflector
1.24/1.83-m	UK Grubb-Parsons Schmidt telescope	+149 04 12.8	−31 16 27.8	1145	AL	07/1973+

Australian National Radio Astronomy Observatory, CSIRO/Division of Radiophysics, P.O. Box 276, Parkes, NSW 2870, Australia

64-m	LBA steerable parabolic dish antenna	+148 15 44.15	−33 00 00.0	392	AL	1961+; used with 18.3-m antenna as an interferometer
18.3-m	steerable paraboloid	+148 15 44.36	−32 59 59.9	392	AL	Used with 64-m antenna as an interferometer
11-m	radio dish					Inactive
5.8-m	radio dish					Inactive

Australia Telescope National Facility, CSIRO, P.O. Box 94, Narrabri, NSW 2390, Australia

D=3-km	circular radioheliograph	+149 33 39.5	−30 18 55.7	217	AL	1967-?; former
	radiospectrograph	+149 33 39.5	−30 18 55.7	217	AL	
1.7-cm	USNGS BC-4 camera	+149 33 36.89	−30 18 39.4	211	AL	Former; Natl. Geodetic Survey instrument
	USN Doppler mobile van system	+149 33 36.72	−30 18 39.6	215	AL	Former; U.S. Navy instruments
7.62-m	parabolic reflector #1					Former
7.62-m	parabolic reflector #2					Former
L=6-km	Compact Array (CA)	+149 32 56.33	−30 18 52.0	208	AL	Six 22-m antennas
22-m	LBA radio antenna	+149 05 59	−31 16 04	840	AL	Mopra Obs., Coonabarabran

Deep Space Station-Tidbinbilla, CDSCC, P.O. Box 4350, Kingston, ACT 2604, Australia

26-m	parabolic equatorial Cassegrain antenna	+148 58 48.20	−35 24 08.0	656	AL	1965-1986; upgraded to 34-m
64-m	parabolic antenna	+148 58 48.20	−35 24 14.3	670	AL	1972-1989; upgraded to 70-m
70-m	parabolic Cassegrain antenna	+148 58 48.19	−35 24 14.3	670	AL	1989+; upgraded from 64-m
34-m	parabolic equatorial Cassegrain antenna	+148 58 35.32	−35 24 00.2	672	AL	1986+
34-m	parabolic equatorial Cassegrain antenna	+148 58 48.21	−35 24 08.0	664	AL	1986+; upgraded from 26-m

Fleurs Radio Observatory, University of Sydney, Sydney, NSW 2006, Australia

	rotational synthesis array	+150 46 30	−33 51 45	45	U	
110x16.4-m	rectangular filled-in array					
7.5x12-m	rectangular filled-in array					
5x8-m	rectangular filled-in array					
3.1x5.2-m	rectangular filled-in array					
1.8x2.8-m	rectangular filled-in array					
	2-rhombic interferometer					
	cross-type radio telescope					
6-m	steerable paraboloid					
	32-element cross-type radio telescope					32 9-m paraboloids
	crossed compound interferometer					32 9-m and two 14-m paraboloids

Molonglo Radio Observatory, University of Sydney, R.M.B. 107, Hoskinstown, NSW 2621, Australia

1609-m	cross-type radio telescope	+149 25 25.25	−35 22 19.0	732	U	Each arm is 1600x12-m

Mount Pleasant Radio Astronomy Observatory, University of Tasmania, G.P.O. Box 252C, Hobart, Tasmania 7001, Australia

26-m	steerable parabolic antenna	+147 26 21	−42 48 18	43	U	05/1986+
13.5-m	steerable altazimuth parabolic antenna					1988+

Mount Stromlo Observatory, Australian National University, Private Bag, Weston Creek P.O., Weston Creek, ACT 2611, Australia

1.88-m	Grubb-Parsons reflector	+149 00 27.59	−35 19 14.3	767	AL	1955+
75-cm	Reynolds reflector	+149 00 18.44	−35 19 20.4	772	AL	1925+
1.22-m	Grubb Schmidt/Cassegrain reflector	+149 00 22.43	−35 19 19.0	767	AL	1944+; from Melbourne Obs.
25-cm	Grubb-Parsons photographic zenith tube	+149 00 19.01	−35 19 20.9	----	AL	1955+
23-cm	Oddie Grubb refractor	+149 00 33.45	−35 19 03.8	780	AL	1911-1913
51-cm	Schmidt reflector					Uppsala Univ. Obs. telescope
15-cm	Farnham Grubb refractor					
66-cm	McDowell Yale-Columbia photo. refractor					01/1956+
30-cm	Grubb-Parsons solar tower telescope					1927+
19-cm	Askania verticle circle					06/1954-?; to Munich Obs.
76-mm	transit telescope					
50-cm	reflector					

Perth Observatory, Walnut Road, Bickley, WA 6076, Australia

33-cm	Grubb equatorial astrograph	+116 08 06.07	−32 00 32.3	391	AL	1966+
61-cm	Boller & Chivens Cassegrain reflector	+116 08 06.07	−32 00 29.1	407	AL	04/1971+
40.6-cm	Cassegrain/Newtonian reflector	+116 08 02.33	−32 00 32.1	384	AL	1970+; Western Austl. Univ. telescope
19-cm	Repsold meridian circle	+116 08 04.52	−32 00 29.9	388	AL	11/1967+; Hamburg Obs. telescope
36-cm	Celestron Schmidt/Cassegrain reflector	+116 08 06.61	−32 00 30.7	389	AL	1980+
25-cm	Grubb refractor	+115 50 34.50	−31 57 15.3	65	G	
27-cm	refractor	+116 08 06.15	−32 00 32.2	391	G	
15-cm	Troughton & Simms transit circle					

Riverview College Observatory, St. Ignatius College, Lane Cove, NSW 2066, Australia

18-cm	equatorial refractor	+151 09 30	−33 49 45.7	25	AL	
10-cm	refractor	+151 09 29.8	−33 49 45.7	24	AL	Former
12.7-cm	cometseeker	+151 09 29.8	−33 49 45.7	24	AL	
6-cm	astrotriplet equatorial telescope					Former

Siding Spring Observatory, Australian National University, Private Bag, Coonabarabran, NSW 2357, Australia

2.3-m	Advanced Technology Telescope (ATT)	+149 03 42	−31 16 24	1149	U	1984+

AUSTRIA

Kanzelhöhe Solar Observatory, Karl Franzens University-Graz, A-9521 Treffen, Austria

11-cm	solar patrol instrument	+13 54 22	+46 40 40	1526	G	
13-cm	photoheliograph					

Kuffner Observatory, Johann Staud Strasse 10, A-1160 Vienna, Austria

27-cm	Steinheil refractor	+16 17 46.82	+48 12 47.8	302	G	
15-cm	refractor	+16 17 48.5	+48 12 47.3	299	G	
12.5-cm	meridian circle	+16 17 44.4	+48 12 46.7	293	A	Inactive
25-cm	refractor	+16 17 25	+48 12 51	302	EU	
13-cm	refractor	+16 17 47.8	+48 10 14.8	233	U	
16.5-cm	refractor	+16 17 48.2	+48 12 47.3	299	EU	

L. Figl Astrophysical Observatory, Vienna University, Türkenschanzstrasse 17, A-1180 Vienna, Austria

1.52-m	Ritchey-Chrétien reflector	+15 55 25	+48 05 02.3	890	HS	1969+

Lustbühel Observatory, Karl Franzens University-Graz, Lustbühelstrasse 46, A-8042 Graz, Austria

40-cm	reflector	+15 29 41.75	+47 03 56.3	480	A	c.1972+

University of Graz Observatory, Karl Franzens University-Graz, Institute for Astronomy, Universitätsplatz 5, A-8010 Graz, Austria

16-cm	Steinheil refractor	+15 27 03	+47 04 43	375	HS	1890+
7-cm	transit instrument					?-c.1980; put into storage

Urania Observatory, Uraniastrasse 1, A-1010 Vienna, Austria

26-cm	Cassegrain reflector	+16 23 07.29	+48 12 43.4	193	G	
5-cm	transit instrument	+16 23 07.54	+48 12 43.3	186	G	
26-cm	refractor	+16 23 01	+48 12 47	181	EU	
8-cm	Zeiss cometseeker	+16 23 22.2	+48 12 43.5	185	U	
68-mm	Busch telescope	+16 23 22.2	+48 12 43.5	185	U	
65-mm	Fraunhofer telescope	+16 23 22.2	+48 12 43.5	185	U	
68-mm	Fritsch telescope	+16 23 22.2	+48 12 43.5	185	U	
38-mm	Ramsden telescope	+16 23 22.2	+48 12 43.5	185	U	
5-cm	Busch telescope	+16 23 22.2	+48 12 43.5	185	U	
6-cm	Nickl refractor	+16 23 01	+48 12 47	181	EU	
6-cm	cometseeker #1	+16 23 22.2	+48 12 43.5	185	U	
6-cm	cometseeker #2	+16 23 22.2	+48 12 43.5	185	U	
20-cm	Zeiss refractor	+16 23 22.2	+48 12 43.5	185	U	
10-cm	Zeiss telescope	+16 23 22.2	+48 12 43.5	185	U	
43-mm	Fraunhofer telescope	+16 23 22.2	+48 12 43.5	185	U	
8-cm	apochromatic telescope	+16 23 22.2	+48 12 43.5	185	U	
15-cm	refractor	+16 23 07	+48 12 43	193	EU	
30-cm	reflector	+16 23 07	+48 12 43	193	EU	

Vienna University Observatory, Vienna University, Türkenschanzstrasse 17, A-1180 Vienna, Austria

7-cm	Askania transit instrument	+16 20 14.04	+48 13 54.3	241	A	
67-cm	Grubb equatorial refractor	+16 20 20.88	+48 13 55.5	265	G	1880+
33-cm	astrograph	+16 20 14.1	+48 13 54.3	241	A	
25-cm	astrograph	+16 20 13.3	+48 13 56.8	240	U	
15-cm	Merz equatorial cometseeker	+16 20 14.1	+48 13 54.3	241	A	
6-cm	cometseeker	+16 20 14.1	+48 13 54.3	241	A	
24-cm	refractor	+16 20 14.1	+48 13 54.3	241	A	
30-cm	Clark refractor	+16 20 19	+48 13 55.4	252	U	
45-mm	Plössl telescope	+16 21 30	+48 13 42	252	U	

13.5-cm	zenith telescope					
21-cm	refractor					
40-cm	Cassegrain telescope					
15-cm	Fraunhofer equatorial telescope					
15-cm	Steinheil equatorial telescope					
10-cm	refractor #1					
10-cm	refractor #2					
76-mm	Fraunhofer equatorial telescope					
76-mm	Dollond equatorial telescope					
12.7-cm	Plössl equatorial dialitic telescope					
76-mm	Plössl cometseeker					

BELGIUM

Astronomical and Astrophysical Institute, Open University of Brussels, Case Postale 165, Avenue F.D. Roosevelt 50, B-1050 Brussels, Belgium

16-cm	refractor	+4 22 59.13	+50 48 45.6	147	EU	
34-cm	reflector	+4 22 59.13	+50 48 45.6	147	EU	
12-cm	astrograph	+4 22 59.13	+50 48 45.6	147	EU	Inactive
16-cm	astrograph	+4 22 59.13	+50 48 45.6	147	EU	Inactive
10.2-cm	solar spectrograph	+4 22 59.1	+50 48 44.9	144	G	Former

Cointe Observatory, Liège University, Institute of Astrophysics, Avenue de Cointe 5, B-4000 Liège-Cointe, Belgium

43/60-cm	Schmidt telescope	+5 33 51.6	+50 37 06	127	A	1957+
30-cm	coelostat					Used for education purposes

Humain Radio Astronomy Station, Royal Observatory of Belgium, B-5400 Marche, Belgium

7.5-m	Würzburg radio telescope	+5 15 19	+50 11 31	293	A	1956+
	multi-antenna interferometer	+5 15 19	+50 11 31	293	A	1972+; 48 4-m antennas
	S.E.A. loop antenna					1959+

Royal Observatory of Belgium, Avenue Circulaire 3, Uccle, B-1180 Brussels, Belgium

19-cm	Askania meridian circle	+4 21 29.21	+50 47 54.7	105	A	
6-cm	Danjon astrolabe	+4 21 29.19	+50 47 53.9	107	A	
45-cm	Cooke-Zeiss equatorial visual refractor	+4 21 37.16	+50 47 56.0	109	EU	
	Doppler satellite tracking station	+4 21 31.11	+50 47 54.9	150	G	
38-cm	Merz-Cooke refractor	+4 21 36.96	+50 47 56.0	111	EU	
30-cm	Zeiss triplet	+4 21 39.26	+50 47 58.4	107	EU	
25-cm	refractor	+4 21 36.16	+50 47 54.2	111	EU	
10-cm	refractor	+4 21 33.16	+50 47 54.0	107	EU	
15-cm	Cooke refractor	+4 21 35.46	+50 47 56.0	111	EU	
20-cm	Zeiss double astrograph	+4 21 32.26	+50 47 55.6	107	EU	
40-cm	Zeiss double astrograph					
16-cm	Steinheil-Cooke telescope					
0.84/1.20-m	Cox-Hargreaves-Thomson Schmidt telescope	+4 21	+50 48	105	U	1958+
40/60-cm	catadioptic telescope					
16-cm	Grubb visual refractor					
13-cm	Zeiss heliograph					

9-cm	transit instrument					
7-cm	transit instrument					
1.02-m	Zeiss telescope					?-1940; destroyed
	Repsold meridian circle					Former; damaged

BRAZIL

Abrahão de Moraes Obs., Univ. of São Paulo, Ast. and Geophysical Inst., Ave. Miguel Stéfano 4200, Agua Funda, C.P. 9638, 01.065 São Paulo (SP), Brazil

19-cm	Zeiss AM-190 meridian circle	−46 58 01	−23 00 06	850	A	
	OPL-33 Danjon impersonal astrolabe	−46 58 03	−23 00 06	849	A	
60-cm	Boller & Chivens reflector	−46 58 03	−23 00 04	849	A	1982+
2-m	radio telescope					

Antares Astronomical Observatory, Feira de Santana State University, Caixa Postal 102, 44.100 Feira de Santana (BA), Brazil

15-cm	refractor	−38 57 53	−12 15 25	256	U	
15-cm	reflector					
20.3-cm	Dinamax reflector					
	solar photographic telescope					
	Zeiss meniscus Cassegrain reflector					
	Zeiss camera					
	double laser telescope					

Itapetinga Radio Observatory, Mackenzie University, INPE/CRAAM, Caixa Postal 200, 12.940 Atibaia (SP), Brazil

13.7-m	mm-wavelength radio telescope	−46 33 27.81	−23 11 04.7	806	G	12/1971+
1.5-m	equatorial radio telescope					
	radio polarimeter					

Morro Santana Obs., Fed. Univ. Rio Grande do Sul, Physics Inst., Campus do Vale, C.P. 15051, Ave. Bento Gonçalves 9500, 91.500 Porto Alegre (RS), Brazil

52-cm	Zeiss Cassegrain reflector	−51 07 36	−30 03 12	300	G	

National Observatory, Rua General José Cristino 77, 20.921 Rio de Janeiro, Brazil

11-cm	Heyde visual zenith tube	−43 13 21.93	−22 53 42.2	33	A	
46-cm	Cooke equatorial refractor	−43 13 26.5	−22 53 43.9	38	G	
32-cm	Cooke equatorial refractor	−43 13 25.5	−22 53 44.1	38	G	
20-cm	Heyde equatorial refractor	−43 13 24.7	−22 53 43.6	38	G	
3-cm	Heyde theodolite	−43 13 26.2	−22 53 43.9	38	G	
11-cm	photoheliograph					
8-cm	meridian telescope					
7-cm	meridian telescope					

Pico dos Dias Observatory, National Laboratory for Astrophysics, Rua Coronel Rennó 7, Caixa Postal 21, 37.500 Itajubá (MG), Brazil

1.6-m	Boller & Chivens Ritchey-Chrétien/Coudé reflector	−45 34 57.6	−22 32 04.0	1870	G	1980+
60-cm	Zeiss-Jena Cassegrain reflector	−45 34 58.6	−22 32 04.8	1865	G	1983+
30-cm	comet camera	−45 34 58.1	−22 32 05.0	1863	G	1989+

Piedade Observatory, Federal University of Minas Gerais, Department of Physics, Caixa Postal 702, 30.161 Belo Horizonte (MG), Brazil

60-cm	Zeiss Cassegrain reflector	−43 30 43.5	−19 49 20.2	1746	A	11/1972+
15-cm	Coudé refractor					11/1972+

Valongo Observatory, Ladeira do Pedro Antonio 43, Saude ZC-05, 20.080 Rio de Janeiro, Brazil

30-cm	Cooke equatorial refractor	−43 11 09.90	−22 53 51.3	52	A	
8-cm	Zeiss refractor	−43 11 09.90	−22 53 51.3	52	A	
11.6-cm	refractor	−43 11 11.3	−22 53 51.6	51	U	

CANADA

Algonquin Radio Observatory, National Research Council of Canada, Algonquin Provincial Park, Lake Traverse, Ontario K0A 2L0, Canada

45.7-m	steerable altazimuth radio telescope	−78 04 22.94	+45 57 19.8	260	NA	1966+
10-m	steerable equatorial parabolic radio telescope	−78 04 13.2	+45 57 19.6	232	A	
1.6-m	radio telescope	−78 03 05	+45 57 13.6	232	A	
	solar array	−78 03 32.5	+45 56 42.2	234	A	
18-m	radio telescope	−78 03 38	+45 56 47	236	NA	?-1991; former; David Dunlap Obs. telescope
B=642-m	40-element interferometer					
2.7-m	equatorial horn reflecting antenna					David Dunlap Obs. instrument
1.8-m	steerable equatorial paraboloid					

Climenhaga Observatory, University of Victoria, Department of Physics and Astronomy, P.O. Box 1700, Victoria, B.C. V8W 2Y2, Canada

50-cm	Lorenz Cassegrain reflector	−123 18 30.0	+48 27 48.0	74	G	1977+
30-cm	reflector	−123 18 31	+48 27 46	69	G	?-Summer 1985; former
25-cm	Schmidt telescope	−123 18 31	+48 27 46	69	G	?-Summer 1985; former

David Dunlap Observatory, University of Toronto, Astronomy Department, P.O. Box 360, Richmond Hill, Ontario L4C 4Y6, Canada

1.88-m	Dunlap Grubb-Parsons reflector	−79 25 20	+43 51 46	244	G	1935+
61-cm	reflector	−79 25 18	+43 52 00	244	G	1964+
48-cm	reflector					
15-cm	refractor					1952-1984; museum
13-cm	horizontal solar telescope with coelostat					Former

Devon Astronomical Observatory, University of Alberta, Department of Physics, Edmonton, Alberta T6G 2J1, Canada

51-cm	Cassegrain reflector	−113 45 30.91	+53 23 26.9	708	NA	1977+
31-cm	reflector	−113 31 30	+53 32	686	NA	1968+
35-cm	reflector	−113 31 30	+53 32	686	NA	1978+

Dominion Astrophysical Observatory, National Research Council of Canada, 5071 West Saanich Road, R.R. 5, Victoria, B.C. V8X 4M6, Canada

1.85-m	Plaskett Brashear/Warner & Swasey reflector	−123 25 01.18	+48 31 11.9	238	NA	05/1918+
41-cm	reflector	−123 24 51.1	+48 31 08.5	198	U	Former; to Mt. Kobau
41-cm	Boller & Chivens reflector	−123 25 09.22	+48 31 19.1	222	NA	11/1980+
1.22-m	Grubb-Parsons reflector	−123 25 07.6	+48 31 16.5	230	NA	03/1962+
15-cm	reflector	−123 25 03	+48 31 16	230	U	Former
76-mm	refractor	−123 25 03	+48 31 16	230	U	Former

Dominion Radio Astrophysical Observatory, National Research Council of Canada-HIA, Box 248, Penticton, B.C. V2A 6K3, Canada

25.6-m	paraboloid	−119 37 09.38	+49 19 13.9	545	G	
	super synthesis radio telescope	−119 37 12	+49 19 24	546	G	Four 8.5-m paraboloids
	22 MHz T-shaped array	−119 37 12	+49 19 06	546	G	c.1965-1970
	10 MHz T-shaped array					c.1966-1968
1.8-m	paraboloid					

Elginfield Observatory, University of Western Ontario, Astronomy Dept., Physics and Astronomy Building, London, Ontario N6A 3K7, Canada

1.22-m	Boller & Chivens Ritchey-Chrétien reflector	−81 18 55.9	+43 11 32	323	G	1969+

Mont Mégantic Astronomical Observatory, Univ. of Montreal, Physics Dept., Boîte Postale 6128, Succursale A, Montreal, Quebec H3C 3J7, Canada

1.6-m	Boller & Chivens reflector	−71 09 09.7	+45 27 20.6	1114	G	1978+

Ottawa River Solar Observatory, National Research Council of Canada-HIA, 100 Sussex Drive, Ottawa, Ontario K1A 0R6, Canada

	multiple photoheliograph	−75 53 36	+45 23 13	58	NA	1973+

Rothney Astrophysical Observatory, University of Calgary, Physics and Astronomy Dept., 2920 24th Avenue N.W., Calgary, Alberta T2N 1N4, Canada

41-cm	Cassegrain/Newtonian reflector	−114 17 20.70	+50 52 06.7	1272	NA	1972+
1.5-m	infrared Cassegrain reflector					Early 1980's+
75-cm	Baker-Nunn camera					Inactive

CHILE

Cerro Calán National Astronomical Observatory, University of Chile, Casilla 36-D, Casilla 36-D, Santiago, Chile

19-cm	Repsold meridian circle	−70 32 45	−33 23 50	860	A	1963+
	Danjon astrolabe	−70 32 42.7	−33 23 57.0	860	A	From European Southern Obs.
32-cm	Gautier astrographic refractor	−70 32 40	−33 23 53	860	A	1963+
28-cm	Heyde equatorial visual refractor	−70 31 57	−33 23 32	860	G	1963+
20-cm	reflector	−70 32 05.7	−33 23 31.0	860	G	
60-cm	Grubb-Parsons equatorial refractor					From National Obs., San Bernardo
89-mm	Bamberg broken-transit instrument					
	Maksutov photographic vertical circle					

Cerro El Roble Astronomical Observatory, Casilla 36-D, Santiago, Chile

70/100-cm	Maksutov double-meniscus astrograph	−71 01 12	−32 58 54	2220	A	1967+

Cerro Tololo Inter-American Observatory, Casilla 603, La Serena, Chile

61/92-cm	Curtis Perkin-Elmer Schmidt reflector	−70 48 52.7	−30 09 55.5	2215	A	1967+; Michigan Univ. telescope
4.0-m	Victor Blanco Ritchey-Chrétien equatorial refl.	−70 48 53.6	−30 09 57.8	2235	A	10/1974+
1.5-m	Ritchey-Chrétien Cassegrain reflector	−70 48 54.5	−30 09 56.3	2225	A	11/1967+
1-m	Boller & Chivens Ritchey-Chrétien reflector	−70 48 51.8	−30 09 54.8	2215	A	1974+; from Yale Univ. Obs.
92-cm	Ritchey-Chrétien Cassegrain reflector	−70 48 53.9	−30 09 54.8	2215	A	
61-cm	reflector					Co-owned with Lowell Obs.
41-cm	Cassegrain reflector #1					1964+
41-cm	Cassegrain reflector #2					1965+
1.2-m	SCMT Cassegrain radio telescope					From Harvard Col. Obs.

European Southern Observatory, Casilla 19001-Correo 19, Santiago, Chile

1/1.6-m	Zeiss Schmidt reflector	−70 43 46.5	−29 15 25.8	2347	A	1972+
1.52-m	spectrographic Cassegrain/Coudé reflector	−70 43 55.3	−29 15 18.1	2347	A	07/1968+
1-m	photometric Cassegrain reflector	−70 43 53.7	−29 15 21.0	2347	A	1966+
50-cm	photometric reflector	−70 43 56.5	−29 15 15.0	2330	A	1971+; from Copenhagen Univ.
25/40-cm	double astrographic refractor	−70 43 52.5	−29 15 23.2	2346	A	
3.6-m	equatorial Cassegrain/Coudé reflector	−70 43 36	−29 15 36	2428	A	1976+
70-cm	Cassegrain reflector	−70 43 41.0	−29 15 30.0	2378	A	Geneva Obs. telescope
1.4-m	Coudé Auxiliary Telescope (CAT)					1980+
1.54-m	Ritchey-Chrétien Cassegrain reflector					11/1979+; Copenhagen Univ. Obs. telescope
62-cm	Cassegrain reflector					09/1968+; Bochum Obs. telescope
2.2-m	Ritchey-Chrétien telescope					1984+; German telescope
3.5-m	New Technology Telescope (NTT)					03/1989+
90-cm	Cassegrain reflector					1979+; from Leiden Obs. Southern Sta.
	Very Large Telescope (VLT)					
15-m	SEST submillimeter dish	−70 44 04	−29 15 34	2400	U	04/1988+; Swedish telescope

Las Campanas Observatory, Carnegie Institution of Washington, Casilla 601, La Serena, Chile

1.0-m	Boller & Chivens reflector	−70 41 57	−29 00 27	2282	G	1971+
61-cm	Hogg Cassegrain reflector	−70 41 58	−29 00 23	2276	G	08/1971+; David Dunlap Obs. telescope
2.54-m	DuPont Cassegrain/Coudé reflector	−70 42 09	−29 00 11	2280	G	1977+; at Cerro Manquis site
25-cm	wide-angle photographic refractor					From Lamont-Hussey Obs.
6.5-m	Magellan I Cassegrain/Gregorian altaz. reflector	−70 42	−29 00	2300	U	1998+
6.5-m	Magellan II reflector					

Maipu Radio Astronomy Observatory, University of Chile, Casilla 68-Correo 16, Maipu, Santiago, Chile

B=157x2-m	528-dipole filled rectangular array	−70 51 28	−33 30 05	446	A
B=27x54-m	4-dipole broadside array				
	3-element yagi				
B=30x15-m	4-dipole broadside array				
	pair of 4-element crossed yagis				
	pair of 3-element crossed yagis				
	5-element yagi				
	7-element yagi				
B=9.3x65-m	15-dipole broadside array				
	two pairs of 5-element crossed yagis				
	log-periodic dipole				

Manuel Foster Astrophysical Observatory, Pontifical Catholic University of Chile, Casilla 6014, Santiago, Chile

93-cm	Cassegrain equatorial reflector	−70 37 49.3	−33 25 05.6	840	G	1902-1948; 1981+

Paranal Observatory, European Southern Observatory, Casilla 19001-Correo 19, Santiago, Chile

8.2-m	Antu Very Large Telescope (VLT)-UT1	−70 24 11.64	−24 37 33.1	2635	U	04/1998+
8.2-m	Kueyen Very Large Telescope (VLT)-UT2					
8.2-m	Melipal Very Large Telescope (VLT)-UT3					

CHINA, PEOPLE'S REPUBLIC OF

Beijing Normal University Observatory, Beijing Normal University, Department of Astronomy, Beijing 100875, People's Republic of China

48-cm	horizontal solar telescope	+116 21 36.81	+39 57 26.7	70	G	c.1958+
13-cm	Zeiss equatorial refractor	+116 21 36.81	+39 57 26.7	70	G	Former
40-cm	reflector	+116 21 36.81	+39 57 26.7	70	G	c.1987+
3-m	equatorial radio telescope	+116 21 36.81	+39 57 26.7	70	G	Former
1.5-m	radio telescope	+116 21 36.81	+39 57 26.7	70	G	c.1984+

Miyun Station, Beijing Astronomical Observatory, Zhongguancun 100080, West Suburb, Beijing, People's Republic of China

B=1-km	4x16-element compound interferometer	+116 45 52.0	+40 33 23.8	160	A	1967+; 28 9-m dishes

Purple Mountain Observatory, Chinese Academy of Sciences, 2 West Beijing Road, Nanjing, Kiangsu Province, People's Republic of China

91-mm	photoelectric transit telescope	+118 49 15.78	+32 04	267	A	
15-cm	astrograph					
40/40-cm	Zeiss twin astrograph					
43/60-cm	Schmidt catadioptic camera					1965+
60-cm	reflector					1934-1937, 1954+
40-cm	multichannel horizontal solar spectrograph					
14-cm	Lyot H_α chromosphere telescope					
20-cm	refractor					
	Ross variable star camera					
13.5-cm	meridian circle					
15-cm	theodolite					
	dual-frequency Doppler receiver					
1.5-m	3-mm wavelength dish radiometer					1981+
1.5-m	8.6-mm wavelength dish radiometer					1979+
13.7-m	antenna	+97 44	+37 22	3200	U	At Delingha
2-m	steerable paraboloid					
40-cm	paraboloid					
D=1.5-m	equatorial torquetum					From Imperial Obs.
D=c.2-m	armillary sphere					From Imperial Obs.

Shaanxi Astronomical Observatory, Chinese Academy of Sciences, P.O. Box 18, Lintong, Xian, Shaanxi Province, People's Republic of China

15-cm	Type I photoelectric astrolabe	+109 33 05.01	+34 56 43.5	468	A	1973+
10-cm	photoelectric transit instrument	+109 33 05.01	+34 56 43.0	468	A	1970+
15-cm	optical satellite tracking theodolite	+109 33 04.50	+34 56 43.3	468	A	1974+
25-cm	Glass meridian circle					
1.05-m	reflector					
	MX-1502 dual-frequency Doppler receiver	+109 13 17.4	+34 22 06.9	510	S	1981+
	Long wave (BPL) radio station	+109 32 33.75	+34 56 54.7	472	G	1980+
	Short wave (BPM) radio station	+109 31	+35 00	600	G	07/1980+

Shahe Station, Beijing Astronomical Observatory, Zhongguancun 100080, West Suburb, Beijing, People's Republic of China

10-cm	Zeiss photoelectric transit instrument	+116 19 39.60	+40 06 04	40	A	
10-cm	optical Danjon astrolabe	+116 19 39.78	+40 06 04.9	40	A	
60-cm	solar reflector	+116 19 40	+40 06 06	40	A	

18/18-cm	twin photosphere-chromosphere telescope	+116 19 40	+40 06 06	40	A	
20-cm	Mark II photoelectric astrolabe	+116 19 40.89	+40 06 03.8	40	A	01/1976+
	tracking theodolite	+116 19 36	+40 06 06	40	A	
40-cm	satellite laser ranging (SLR) system	+116 19 36	+40 06 06	40	A	
	dual-frequency Doppler receiver	+116 19 36	+40 06 06	40	A	
	3.2-cm wavelength solar radiometer	+116 19 40	+40 06 03	40	A	
	10-cm wavelength solar radiometer	+116 19 40	+40 06 03	40	A	
35-cm	coelostat					

Sheshan Station, Shanghai Astronomical Observatory, Sheshan (Zô-Sè), Shanghai, People's Republic of China

40/40-cm	twin equatorial astrographic refractor	+121 11 11.25	+31 05 47.6	100	U	
1.56-m	Ritchey-Chrétien astrometric reflector	+121 11 03.3	+31 05 46.1	97	U	11/1987+
60-cm	laser ranging system	+121 11 30.27	+31 05 51.1	29	U	11/1983+
25-m	radio telescope	+121 11 59	+31 05 57	31	U	10/1987+

Tianjing Latitude Station, Beijing Astronomical Observatory, Zhongguancun 100080, West Suburb, Beijing, People's Republic of China

18-cm	zenith telescope	+117 03 30	+39 08 02	10	A
26-cm	vacuum photographic zenith tube	+117 03 30	+39 08 02	10	A

Urumqi Astronomical Station, Chinese Academy of Sciences, Beijing Road, Urumqi, People's Republic of China

25-m	radio telescope	+87 10 41	+43 28 16	2080	U	1994+
2-m	radio telescope					
30-cm	satellite laser ranging (SLR) telescope					
18-cm	chromosphere-photosphere telescope					
15-cm	theodolite					

Wuchang Time Observatory, Institute of Geodesy and Geophysics, Xu Dong Lu, Wuchang, Hubei, People's Republic of China

	automatic photoelectric transit instrument	+114 20 41.41	+30 32 28.7	28	A	1979-1987
	Danjon astrolabe	+114 20 42.21	+30 32 28.7	28	A	1963-1985
25-cm	photographic zenith tube	+114 20 43.01	+30 32 28.7	28	A	1987+
	satellite laser ranging (SLR) station	+114 20 44.10	+30 32 30.5	39	S	07/1989+

Xinglong Station, Beijing Astronomical Observatory, Zhongguancun 100080, West Suburb, Beijing, People's Republic of China

60/90-cm	Zeiss Schmidt camera	+117 34 30	+40 23 39.3	870	A	
60-cm	reflector	+117 34 30	+40 23 39.3	870	A	
40-cm	Zeiss double astrograph	+117 34 30	+40 23 39.3	870	A	
34-cm	Mark III photoelectric astrolabe	+117 34 30	+40 23 36	----	U	03/1993+
2.16-m	reflector					
1.26-m	infrared telescope					

Xujiahui Station, Shanghai Astronomical Observatory, Xujiahui (Zi-Ka-Wei), Shanghai, People's Republic of China

10-cm	semiautomatic photoelectric transit instrument	+121 25 38.46	+31 11 25.0	5	A
10-cm	Danjon astrolabe	+121 25 37.60	+31 11 25.0	5	A
20-cm	Type II photoelectric astrolabe	+121 25 39.16	+31 11 25.5	5	A
	dual-frequency Doppler receiver				
6-m	radio telescope				
25-m	radio telescope				

Yunnan Observatory, Chinese Academy of Sciences, P.O. Box 110, Kunming 650011, Yunnan Province, People's Republic of China

	No instrument given	+102 47 18	+25 01 32.0	1940	U	
1.02-m	Zeiss Cassegrain/Coudé reflector					
	Type II photoelectric astrolabe					
10-cm	Zeiss photoelectric transit instrument					
35-cm	reflector					
13-cm	refractor					
10-cm	Ross astrograph					
30-cm	horizontal solar telescope					
	GDJ theodolite #1					
	GDJ theodolite #2					
50-cm	SBG satellite camera					
18-cm	H_α chromosphere-photosphere telescope					
40-cm	horizontal spectroheliograph					
	JSZ-4 dual-frequency Doppler receiver					
	10.7-cm wavelength radio telescope					
	8.2-cm wavelength radio telescope					
	3.2-cm wavelength radio telescope					
40-cm	satellite laser ranging (SLR) system					
10-m	solar radio telescope	+102 43	+25 03	2000	U	1985+

COLOMBIA

National Astronomical Observatory, National University of Colombia, Apartado Aéreo 2584, Bogotá 1 (D.E.), Colombia

	No instrument given	−74 04 52.6	+4 35 55.2	2640	U	

CROATIA, REPUBLIC OF

Geodetical Faculty Observatory, Zagreb University, Astronomical Institute, Kaciceva 26, P.P. 164, 41001 Zagreb, Republic of Croatia

9-cm	Askania transit circle	+16 01 16.6	+45 49 32.3	146	A	
9-cm	Askania zenith telescope	+16 01 16.5	+45 49 32.3	146	A	
6-cm	Wild-T4 universal telescope	+16 01 16.5	+45 49 32.3	146	A	
13-cm	refractor					

Hvar Observatory, Zagreb University, 58450 Hvar, Republic of Croatia

65-cm	reflector	+16 26 51	+43 10 39	238	G	c.1972+
13/21.7-cm	double solar telescope	+16 26 51.6	+43 10 38.9	244	A	

CZECH REPUBLIC

Charles University Astronomical Institute, Charles University, Astronomy and Astrophysics Department, Svédská 8, 150 00 Prague, Czech Republic

	transit telescope	+14 23 42	+50 04 36.0	267	A	
17/25-cm	Zeiss photovisual double astrograph	+14 23 42	+50 04 35	267	EU	
11-cm	Zeiss refractor	+14 23 42	+50 04 35	267	EU	

75-mm	Reinfelder-Hertel telescope	+14 23 42	+50 04 35	267	EU	
97-mm	Dollond refractor	+14 23 42	+50 04 35	267	EU	
75-mm	Zeiss refractor	+14 23 42	+50 04 35	267	EU	
10-cm	Somet binoculars	+14 23 42	+50 04 35	267	EU	
25/16/42-cm	Schmidt camera					
65-cm	Zeiss Cassegrain reflector					To Ondrejov Obs.

Nicholas Copernicus Observatory, Kraví Hora, 616 00 Brno, Czech Republic

20-cm	Zeiss refractor	+16 35 18	+49 12 15	310	A	1963+
15-cm	Zeiss refractor	+16 35 18	+49 12 15	310	A	1957+
40-cm	Nasmyth reflector	+16 35 18	+49 12 15	310	A	1988+
8-cm	Zeiss refractor					
44-cm	Maksutov camera					1955-1965
	prominence coronagraph					
	polarizing helioscope					Former
3-m	paraboloid					Former

Ondřejov Observatory, Czech Republic Academy of Sciences, 251 65 Ondřejov, Czech Republic

20.3-cm	Clark equatorial refractor	+14 47 01.2	+49 54 38.1	533	U	
20-cm	Zeiss equatorial double astrograph	+14 47 01.1	+49 54 38	528	EU	
11-cm	Schröder cometseeker	+14 47 01.2	+49 54 38.1	533	U	
	photographic zenith telescope	+14 47 09.31	+49 54 55.4	-----	A	
	spectrohelioscope					
30-cm	Zeiss photographic telescope					
40-cm	Schmidt reflector					
65-cm	Zeiss Cassegrain reflector					Charles Univ. telescope
10/11-cm	double telescope					
	Somet binoculars					
10-cm	Askania transit telescope					
2-m	Zeiss reflector					Summer 1967+
	Fric astrograph					
	coelostat					
	satellite tracking camera					
7.5-m	parabolic radio antenna #1					
7.5-m	parabolic radio antenna #2					
3-m	radio antenna					
	meteor-radar camera and antenna					

Prostějov Observatory, Kolarovy Sady 3348, 796 01 Prostějov, Czech Republic

63-cm	telescope	+17 09 48.48	+49 29 14.6	225	U	1955-1962
33-cm	telescope	+17 09 48.48	+49 29 14.6	225	U	c.1948+
44-cm	telescope	+17 09 48.48	+49 29 14.6	225	U	c.1955+
16-cm	refractor					

Valašské Meziříčí Observatory, Vsetinska 78, 757 01 Valašské Meziříčí, Czech Republic

20-cm	Zeiss telescope	+17 58 30.6	+49 27 49.1	338	G	
15-cm	Zeiss Coudé telescope	+17 58 31.3	+49 27 50.5	338	G	
15-cm	Zeiss Cassegrain reflector	+17 58 31.6	+49 27 51.0	338	G	
24-cm	Görz Cassegrain reflector	+17 58 31.0	+49 27 50.9	338	G	
13-cm	Zeiss refractor	+17 58 30.6	+49 27 49.1	338	G	
11-cm	Zeiss refractor	+17 58 31	+49 27 50.8	338	G	
10-cm	Binar Somet refractor	+17 58 31	+49 27 50.8	338	G	
60-cm	reflector					

DENMARK

Copenhagen University Observatory-Brorfelde, Copenhagen University, Brorfeldevej 23, DK-4340 Tølløse, Denmark

17.8-cm	Grubb-Parsons meridian circle	+11 39 59	+55 37 31	90	EU	1953-03/1983; to La Palma, Canaries
25-cm	photoelectric Cassegrain reflector					1955+
53/79-cm	Schmidt reflector					1966+
50-cm	reflector					1958-1969; to European Southern Obs.
40-cm	photoelectric Cassegrain reflector					1961+

Copenhagen University Observatory-Ostervold, Copenhagen University, Øster Voldgade 3, DK-1350 Copenhagen, Denmark

36/25-cm	Repsold-Steinheil refractor	+12 34 37.73	+55 41 14.8	----	EU	1895-1972
28-cm	Merz refractor					1861-1972
12.2-cm	meridian circle					1861-1972; to Perth Obs.
25-cm	Meade Schmidt/Cassegrain NeST telescope					

Ole Rømer Observatory, Århus University, Langelandsgade, Bygning 520, DK-8000 Århus, Denmark

40-cm	Cassegrain reflector	+10 11 49	+56 07 40	50	U	
50-cm	Cassegrain reflector					
35-cm	Schmidt reflector					Former
17/17-cm	twin refractor					Former

ECUADOR

Quito Astronomical Observatory, Parque Alameda, Apartado 17-01-165, Quito, Ecuador

	astrolabe	−78 29 56.46	−0 12 57.3	2818	U	
24-cm	Merz/Munchen equatorial refractor					
9-cm	Bamberg transit telescope					
16-cm	Repsold/Sohne meridian circle					1889+

EGYPT

Helwân Observatory, Helwân, Cairo, Egypt

76.2-cm	Reynolds-Common reflector	+31 22 45	+29 51 31.0	116	A	1905-?
	Coudé refractor	+31 22 45	+29 51 31.0	116	A	
	transit circle	+31 22 45	+29 51 31.0	116	A	
	AFU-75 camera	+31 22 45	+29 51 31.0	116	A	
10.2-cm	Cooke astrograph					
8-cm	Troughton & Simms meridian circle					
	astrolabe					

Kottamia Observatory, c/o Helwân Observatory, Helwân, Cairo, Egypt

1.88-m	Grubb-Parsons reflector	+31 49 30	+29 55 54	476	G	
25-cm	telescope					

ESTONIA

Wilhelm Struve Astrophysical Observatory, Estonian Academy of Sciences, Toravere, EE-2444 Tartu, Estonia

1.5-m	reflector	+26 28	+58 16	----	U	1975+
24.4-cm	Fraunhofer refractor					

FINLAND

EISCAT Sodankylä Station, European Incoherent Scatter Facility, c/o Geophysical Observatory, SF-99600 Sodankylä, Finland

32-m	dish antenna	+26 37 37.50	+67 21 49.3	197	EU	

Metsähovi Observatory, University of Helsinki, Astrophysical Laboratory, Tähtitorninmäki, SF-00130 Helsinki 13, Finland

60-cm	Ritchey-Chrétien reflector	+24 23 49	+60 13 13	60	G	
38-cm	Väisälä Schmidt reflector					1981+; from Univ. of Helsinki Obs.

Metsähovi Radio Research Station, Helsinki University of Technology, Metsähovinte, SF-02540 Kylmälä, Finland

13.7-m	steerable radio telescope	+24 23 38.41	+60 13 05.2	61	EU	1975+

Tuorla Observatory, University of Turku, Väisäläntie 20, Tuorla, SF-21500 Piikkiö, Finland

39-cm	visual zenith tube	+22 26 45	+60 24 57.5	40	A	1960+
40-cm	Väisälä Schmidt anastigmatic reflector	+22 26 39	+60 24 57.0	41	A	1966+
60-cm	Cassegrain reflector	+22 26 48	+60 24 58.6	39	A	1976+
70-cm	Schmidt anastigmatic reflector	+22 26 49	+60 24 58.4	39	A	1979+
25-cm	visual zenith tube	+22 26 49	+60 24 58.3	----	A	1973+
51/61-cm	Schmidt reflector					Former; to Kerola station
1.03-m	photometric telescope	+22 26 42	+60 24 57.2	53	A	1989+
	photographic astrolabe	+22 26 49.6	+60 24 58.3	39	A	1977+

University of Helsinki Observatory, University of Helsinki, Astrophysical Laboratory, Tähtitorninmäki, SF-00130 Helsinki 13, Finland

	meridian circle	+24 57 16.5	+60 09 42.3	33	A	
33/25-cm	Carte du Ciel double astrograph	+24 57 21.9	+60 09 41.5	36	U	1890+
38-cm	Väisälä Schmidt reflector	+24 57 11.07	+60 09 44.1	40	EU	1950-1981; to Metsähovi Obs.
15-cm	Utzschneider transit instrument					1823-c.1890
D=61-cm	Utzschneider vertical circle					1823-c.1890
76-mm	Utzschneider-Fraunhofer heliometer					1824-c.1890
10-cm	Reichenbach-Fraunhofer transit circle					1825-?
75-mm	Utzschneider-Fraunhofer cometseeker					1830-c.1850
16.5-cm	Merz/Utzschneider-Fraunhofer refractor					1836-c.1890; in situ

FRANCE

Besançon Observatory, Boîte Postale 1615, 41-A Avenue de l'Observatoire, F-25010 Besançon Cedex, France

4-cm	OPL-31 Danjon astrolabe	+5 59 14.8	+47 14 57.2	312	A	?-c.1983; to Ast. Latitude Obs., Borowiec, Poland
19-cm	Gautier meridian instrument	+5 59 18	+47 14 58.4	312	A	Inactive
33/33/30-cm	Secrétan astrograph	+5 59 18.0	+47 14 57.7	315	A	Inactive
33-cm	Gautier equatorial Coudé telescope	+5 59 16.5	+47 14 59	315	A	?-1956; former
10-cm	Gautier altazimuth telescope					Former
10-cm	photographic equatorial telescope					Former
53-cm	equatorial Coudé telescope					Former
21-cm	Eichens-Cojan equatorial telescope					Former

Bordeaux University Observatory, Bordeaux University, Boîte Postale 89, 1 Avenue Pierre Sémirot, F-33270 Floirac, France

19.1-cm	Eichens meridian circle	−0 31 39	+44 50 07	73	A	
37.9-cm	Merz-Gautier reflector	−0 31 37.9	+44 50 03.2	73	U	
21.7-cm	Eichens-Gautier reflector	−0 31 35.4	+44 50 07.1	73	U	
33-cm	Gautier photographic astrograph					
62-cm	Cassegrain reflector					
	2-element interferometer	−0 31 37	+44 50 10	73	U	1973+; two 2.5-m steerable paraboloids
7-m	equatorial paraboloid					

Calern Station, Côte d'Azur Observatory, 2130 Route de l'Observatoire, Caussols, F-06460 St. Vallier-de-Thiey, France

	A.P.P. astrolabe	+6 55 36.03	+43 44 56.0	1270	A	1970+
	solar astrolabe					1977+
1-m	satellite laser ranging (SLR) telescope					1978+
1.5-m	lunar laser ranging (LLR) telescope					1981+
90-cm	astrometric Schmidt reflector	+6 56	+43 45	1270	U	1981+
	photoelectric astrolabe					c.1983+
B=144-m	2-element optical/infrared interferometer					1977+; two 20-cm Coudé telescopes
15-m	infrared interferometer					1982+
B=70-m	optical interferometer					1985+; two 1.5-m telescopes

Côte d'Azur Observatory, Boîte Postale 139, F-06003 Nice-Cedex, France

74-cm	equatorial refractor	+7 18 04.62	+43 43 21.9	372	A	1886+
30-cm	Antares camera	+7 18 03.31	+43 43 36.5	377	EU	1970+
40-cm	equatorial Coudé telescope	+7 18 01.71	+43 43 14.9	367	A	
50-cm	equatorial refractor	+7 18 00.78	+43 43 12.3	363	A	
40/40-cm	twin equatorial astrograph	+7 17 54.94	+43 43 04.3	323	A	
26-cm	coronagraph	+7 18 02.35	+43 43 17.2	371	A	
20-cm	Brünner meridian circle					
38-cm	Gautier equatorial reflector					
8-cm	altazimuth telescope					
70-cm	Gautier equatorial telescope					

Grenoble Observatory, Joseph Fourier University-Grenoble, Astrophysical Group, CERMO-B.P. 53 X, 414 Rue de la Piscine, F-38041 Grenoble Cedex, France

2.5-m	radio telescope	+5 54 27	+44 38 02	2552	G	1986+

Lyon University Observatory, Lyon University, Avenue Charles André, F-69561 St. Genis Laval, France

60-cm	Cassegrain reflector	+4 47 07.8	+45 41 41.0	299	A	
50-cm	Schmidt telescope	+4 47 07.8	+45 41 41.0	299	A	
32-cm	equatorial Coudé telescope					
15-cm	Eichens meridian circle					
32-cm	siderostat					
38-cm	Schmidt telescope					
5-cm	Rigaut transit instrument					
1.00-m	Cassegrain reflector					

Meudon Observatory, Paris Observatory-Meudon, 5 Place Jules Janssen, F-92195 Meudon Cedex, France

83-cm	Henry-Gautier visual refractor	+2 13 53	+48 48 18	162	G	1889+; mounted with 62-cm refractor
62-cm	photographic refractor	+2 13 53	+48 48 18	162	G	1891+; mounted with 83-cm refractor
20-cm	photographic refractor	+2 13 51.34	+48 48 25.4	165	EU	
13.5-cm	photoheliograph					
1.00-m	Henry-Gautier Newtonian reflector					1893+
60-cm	Schaer Cassegrain reflector					?-1924; to High Alpine Sta., Switzerland; 1969+
38-cm	solar telescope					1968+
30-cm	solar telescope					1970+
41-cm	solar telescope #1					
41-cm	solar telescope #2					
25-cm	Eichen equatorial telescope					
21-cm	Eichen equatorial telescope					

Millimeter Radio Astronomy Institute, Domaine University-Grenoble, F-38406 St. Martin d'Hères, France

	4-element interferometer	+5 54 26.0	+44 38 01.2	2552	G	1988+; four 15-m telescopes

Nançay Radio Astronomy Station, Paris Observatory, F-18330 Neuvy Sur Barangeon, France

304.8-m	radio telescope	+2 11 49	+47 22 48	150	A	1976+
7-m	paraboloid					1972+
	EW array of 16x5-m paraboloids					1970+
	NS array of 8x10-m paraboloids					1977+
40x200-m	semidirectional radio telescope					1966+

	EW array of 16x1-m paraboloids					
100x100-m	96 spiral log-periodic antenna array					

Observatory of Haute-Provence, St. Michel l'Observatoire, F-04300 Forcalquier, France

1.93-m	Grubb-Parsons Newt./Cass./Coudé reflector	+5 42 46.75	+43 55 53.3	665	G	07/1958+
1.52-m	spectrographic reflector	+5 42 43.82	+43 56 00.2	667	G	1967+
1.20-m	Newtonian reflector	+5 42 56.50	+43 55 54.3	635	G	1943+; from Paris Obs.
1.00-m	Marly Schaer Cassegrain reflector	+5 43 00.6	+43 55 53.4	653	U	1964+; Geneva Obs. telescope
	astrolabe	+5 42 59.78	+43 55 52.2	----	A	Former
30-cm	Schmidt camera	+5 42 49.28	+43 56 01.1	659	EU	Former
81-cm	Newtonian/Cassegrain reflector					1945+
20-cm	equatorial telescope					Former
60/90-cm	Schmidt camera					1970+; Belgian telescope
15-cm	refractor					
41-cm	refractor					
	2-element interferometer					Former; two 32x60-m parabolic cylinders

Paris Observatory, 61 Avenue de l'Observatoire, F-75014 Paris, France

19-cm	Eichens meridian circle	+2 20 13.6	+48 50 11	67	U	
24.9/24.1-cm	Mailhat equatorial double astrograph	+2 20 11.8	+48 50 08.9	67	A	
6-cm	Danjon astrolabe	+2 20 15.43	+48 50 09.2	66	A	
75-mm	Gautier telescope					
10.2-cm	Routy telescope					1922+
60-cm	equatorial Coudé telescope					
27-cm	equatorial Coudé refractor					
30.5-cm	Secrétan-Eichens equatorial telescope					1858+
38-cm	Brünner-Henry equatorial refractor					
20-cm	Secrétan reflector					
40-cm	Foucault-Secrétan telescope					
60-cm	Newtonian reflector					?-1841; former
80-cm	Foucault telescope					
1.20-m	Newtonian reflector					1877-?; to Obs. of Haute-Provence
76-cm	Gautier-Henry refractor					1890+
33-cm	Henry photographic refractor					
12-cm	Gambey meridian circle					1843?
15-cm	Gambey transit instrument					1834-?
10-cm	Gambey equatorial refractor					1826+
20-cm	Short Gregorian reflector					1807-?; museum
11-cm	Ramsden achromatic transit instrument					1803-1847; to Toulouse Obs.
	Lenoir transit instrument					1799-1803
56-cm	Gregorian reflector					1798-1841; from Passy Obs., Paris
18-cm	Dollond Gregorian reflector					1785-1807
89-mm	Charité achromatic transit instrument					1782-1799
89-mm	de Pange Dollond achromatic refractor					1781-?
89-mm	de Conti Dollond achromatic refractor					1777-?
	Migon refractor					1678-?
R=91-cm	portable quadrant					1756-1785
R=1.83-m	Couplet mural quadrant #1					1672-?

R=1.83-m	Couplet mural quadrant #2					1672-?
R=81-cm	portable quadrant					1673-1742; to Capuchine Convent
R=91-cm	portable quadrant					1673-?
R=1.83-m	octant					1673-?
R=1.52-m	mural quadrant					1683-c.1785; from Picard
R=1.52-m	mural quadrant					1683-1787; from La Hire
R=3.05-m	zenith sector #1					1701-?
R=3.05-m	zenith sector #2					1718-?
R=1.83-m	Langlois mural quadrant					1732-c.1778
R=1.07-m	Langlois mural quadrant					1738-c.1778
R=1.83-m	Langlois quadrant					1742-c.1785
R=1.83-m	Langlois sector					1740-1748; to Mazarin College
R=28-cm	semicircle					1765-1777
R=91-cm	portable Canivet quadrant					1771-c.1777
R=30-cm	portable quadrant					?-c.1778
R=76-cm	Langlois quadrant					1778-c.1783
R=2.5-m	Bird mural quadrant					1799-1834; O=6-cm; museum
R=1.62-m	Sisson mural quadrant					1799-1819; from Royal Obs., Berlin, Germany
D=91-cm	Reichenbach repeating circle					1811-1832; O=84-mm; museum
11-cm	Fortin-Lerebours mural circle					1822-c.1853
R=2.5-m	Bird mural quadrant					1835-1838; O=8-cm; to Toulouse Obs.

Pic du Midi Observatory, 9 Rue du Pont de la Moulette F-65200 Bagnères-de-Bigorre, France

	solar instruments	+0 08 39	+42 56 12.0	2861	A	
1.06-m	Cassegrain reflector	+0 08 35.1	+42 56 11.0	2865	U	1963+
2.03-m	reflector					1980+
25-cm	student telescope					
60-cm	Gentili reflector					
60-cm	Schaer reflector					
41-cm	solar telescope					
60-cm	Henry-Gautier Coudé telescope					
23-cm	refractor					1908+
50-cm	Newtonian reflector					1974+
30-cm	refractor					
60-cm	Baillaud refractor					1904+
38-cm	refractor					
20-cm	Lyot coronagraph					07/1931+
	coelostat for horizontal solar telescope					
	coronal white-light polarimeter					

Strasbourg Observatory, Louis Pasteur University, 11 Rue de l'Université, F-67000 Strasbourg, France

19-cm	meridian circle	+7 46 12.19	+48 35 01.4	142	G	
48.6-cm	Merz-Repsold equatorial refractor	+7 46 08.46	+48 35 03.0	156	G	
23-cm	refractor	+7 46 07.63	+48 35 00.2	152	A	
16.2-cm	Reinfelder-Hertel/Repsold equatorial refractor	+7 46 11.13	+48 35 01.3	153	G	
51-cm	telescope	+7 46 07.63	+48 35 00.8	152	A	
30-cm	Zeiss FK camera	+7 46 11.14	+48 35 01.9	154	EU	
16-cm	Repsold-Bouty meridian circle					

13.6-cm	Merz-Repsold altazimuth telescope					
13.2-cm	Cauchoix meridian telescope					
76-mm	Fraunhofer heliometer					
16.2-cm	Merz cometseeker					

Toulouse University Observatory, Toulouse University, 1 Avenue Camille Flammarion, F-31500 Toulouse, France

	No instrument given	+1 27 45	+43 36 44	195	U	
83-cm	Henry-Gautier equatorial reflector					
39-mm	equatorial visual refractor					
21-cm	Gautier meridian circle					
53-cm	Schmidt telescope					
33-cm	astrograph					
25-cm	telescope					
42-cm	Schmidt telescope					
33/19-cm	Carte du Ciel photovisual telescope					
11-cm	Ramsden achromatic transit instrument					1847-1890; from Paris Obs.
R=2.5-m	Bird mural quadrant					1838-1881; from Paris Obs.; O=8-cm; museum
53-cm	quadrant					c.1838-?; museum

GEORGIA

Abastumani Astrophysical Observatory, Georgia Academy of Sciences, Mount Kanobili, 383762 Abastumani, Georgia

40-cm	Zeiss refractor	+42 49 20.0	+41 45 17.0	1583	A	1937+
40-cm	double astrograph	+42 48 55.6	+41 45 25.4	1615	A	1978+
70/96-cm	Maksutov meniscus photographic telescope	+42 49 13.8	+41 45 14.9	1596	A	1955+
8-cm	cometseeker	+42 49 31.2	+41 45 18.2	1580	A	
33-cm	reflector	+42 49 31.2	+41 45 18.2	1580	A	1932+
125-cm	automatic reflector	+42 49 16.4	+41 45 15.0	1593	A	1980+
20-cm	double refractor	+42 49 31.2	+41 45 18.2	1580	A	
	field binoculars	+42 49 31.2	+41 45 18.2	1580	A	
48-cm	reflector					1968+
36/44-cm	Schmidt camera					1938+
44-cm	horizontal solar telescope					1966+
53-cm	coronagraph					1972+
12-cm	coronagraph					1966+
	chromosphere-photosphere telescope					1957+
	spectrohelioscope					1937+
	spectroheliograph					1954+
	2-element vertical array interferometer					1968+

GERMANY

Archenhold Observatory, Alt-Treptow 1, D-O-1193 Berlin, Germany

68-cm	Steinheil-Zeiss equatorial refractor	+13 28 40.1	+52 29 11.4	41	A	05/1896+
15-cm	Coudé refractor	+13 28 28	+52 29 04	38	EU	1962+

10-cm	refractor	+13 28 28	+52 29 04	38	EU	Former
8-cm	refractor	+13 28 28	+52 29 04	38	EU	Former
12-cm	astrograph	+13 28 39.6	+52 29 11.8	42	A	1963+
25-cm	Newtonian reflector	+13 28 40.4	+52 29 12.2	42	A	1952+
6-cm	transit instrument					Former
50-cm	Cassegrain reflector	+13 28 35.9	+52 29 15.3	41	A	1962+
25-cm	cometseeker	+13 28 39.9	+52 29 12.2	42	A	1967+
20-cm	Jensch coelostat	+13 28 33.3	+52 29 15.2	----	A	1968+
15-cm	Urania refractor	+13 28 39.3	+52 29 12.0	42	A	1988+

Bochum Observatory, Bochum Planetarium, Castroper Strasse 67, D-W-4630 Bochum 1, Germany

12-cm	refractor	+7 13 24.4	+51 27 54.8	132	U	
40-cm	reflector					
15-cm	refractor					
26-cm	reflector					Former
11-cm	refractor					
32-cm	reflector					

Central Institute for Earth Physics, Telegrafenberg A 17, D-O-1561 Potsdam, Germany

10-cm	Danjon astrolabe	+13 04 00.64	+52 22 54.7	91	A	1957-1985
25-cm	photographic zenith tube	+13 06 18.00	+52 24 24.9	70	A	1972-1982
50/40/79-cm	satellite camera	+13 04 01.8	+52 22 55.2	109	A	1966-1973
15-cm	Zeiss Cassegrain reflector	+13 04 01.8	+52 22 55.2	109	A	?-1975
11-cm	Zeiss telescope	+13 04 01.8	+52 22 55.2	109	A	?-1967
7-cm	Reinfelder-Hertel refractor	+13 04 01.8	+52 22 55.2	109	A	?-1962
54-mm	Merz refractor	+13 04 01.8	+52 22 55.2	109	A	
9-cm	transit telescope #1	+13 04 01.04	+52 22 54.3	91	A	?-1968
9-cm	transit telescope #2	+13 04 01.04	+52 22 54.3	91	A	?-1974
10-cm	Zeiss transit telescope	+13 04 01.04	+52 22 54.3	91	A	?-1968
25-cm	Zeiss photographic zenith tube	+13 04 00.39	+52 22 54.3	91	A	1980+

Effelsberg Radio Observatory, Max Planck Institute for Radio Astronomy, Auf dem Hügel 69, D-W-5300 Bonn 1, Germany

100-m	steerable parabolic radio telescope	+6 53 03.7	+50 31 33.8	369	G	1970+

Einstein Tower Solar Observatory, Central Institute for Solar-Terrestrial Physics, Telegrafenberg, D-O-1560 Potsdam, Germany

60-cm	solar tower telescope	+13 03 54	+52 22 50	100	U	
10.4-m	radio dish					
7.6-m	radio dish					
3.35-m	radio dish					

Friedrich Schiller University Observatory, Friedrich Schiller University-Jena, Physics Department, Schillergässchen 2, D-O-6900 Jena, Germany

90/60-cm	Zeiss Schmidt/Cassegrain reflector	+11 29 13	+50 55 48	356	U	1962+; Grosschwabhausen site
20-cm	Bamberg-Zeiss refractor	+11 35 03.00	+50 55 34.9	164	A	1891-c.1927; City Obs.
85-mm	Schröder transit telescope					1813-c.1830
77-mm	Utzschneider-Fraunhofer refractor					1824-c.1880
29-cm	Zeiss mirror-prism camera	+11 35 03.00	+50 55 34.9	164	A	1936+; City Obs.
16-cm	Newtonian reflector	+11 35 04.00	+50 55 35.5	164	A	1793-c.1830
74-mm	Utzschneider-Fraunhofer refractor					1813-c.1830

12.2-cm	Koerner refractor					1817-c.1830
77-mm	Bamberg meridian circle					1892-1965; City Obs.
30-cm	Zeiss zenith telescope	+11 35 03.00	+50 55 34.6	----	U	1901-1920; City Obs.
20/20-cm	Zeiss twin astrograph	+11 33 00	+50 55 29	350	U	1931-1945; Forest station
35-cm	Zeiss Schmidt reflector					1936-1950; Forest station
50-cm	Cassegrain reflector	+11 33 00	+50 55 29	350	U	1950-1963; Forest station

Göttingen University Observatory, Göttingen University, Geismarlandstrasse 11, D-W-3400 Göttingen, Germany

12-cm	Reichenbach transit telescope	+9 56 33.3	+51 31 48.1	161	A	1819-c.1887; former
38/50-cm	Schmidt reflector					1937+
45-cm	solar tower telescope					1944+
34-cm	Zeiss astrograph					1930+
19-cm	Schobloch refractor					1904-1939; former
16-cm	Repsold heliometer					1888-1926; former
10-cm	Repsold meridian circle					1818-1926; former
11-cm	Reichenbach meridian circle					1819-1932; former
22-cm	Hershel Newtonian reflector					c.1811-1834; museum
21-cm	Hauswaldt reflector					1911-1939; former
8-cm	Fraunhofer-Utzschneider heliometer					1814-1924; museum
1.83-m	Bird mural quadrant					c.1811-1817; museum

Hamburg Observatory, University of Hamburg, Gojenbergsweg 112, D-W-2050 Hamburg 80, Germany

60-cm	Repsold/Steinheil refractor	+10 14 28.86	+53 28 51.4	45	PD	1912+
19-cm	Repsold transit circle	+10 14 31.14	+53 28 50.9	41	PD	Former; museum
1-m	Zeiss reflector	+10 14 32.29	+53 28 55.2	41	PD	1913+
80/120-cm	Zeiss Schmidt camera					08/1955-?; to German Spanish Center, Spain
15/15-cm	Zeiss photovisual twin astrograph					Former
25.6-cm	Repsold equatorial telescope					
34/20/30-cm	Lippert Zeiss photovisual astrograph					Former
30-cm	Zeiss zone astrograph					1973+
1.20-m	reflector					1974+

Hoher List Observatory, Friedrich Wilhelms University-Bonn, D-W-5568 Daun, (Eifel), Germany

1.06-m	Nasmyth Cassegrain reflector	+6 51 00.02	+50 09 45.3	533	G	1965+
36-cm	Cassegrain reflector	+6 50 59.05	+50 09 47.5	543	G	
34/50-cm	Schmidt reflector	+6 50 56.57	+50 09 46.8	545	G	1953+
30/36-cm	photovisual double refractor	+6 51 02.02	+50 09 48.5	541	G	1965+
30-cm	astrograph	+6 50 58.25	+50 09 47.5	544	G	1968+
60-cm	Ritchey-Chrétien reflector					1984+
16-cm	Schröder refractor					

Institute of Geodesy Astronomical Observatory, Hannover University, Nienburger Strasse 5, D-W-3000 Hannover 1, Germany

20-cm	zenith camera	+9 42 45.8	+52 23 15.0	71	A	
20-cm	visual refractor	+9 42 47	+52 23 15	71	A	
20/25-cm	Schmidt reflector	+9 42 47	+52 23 16	71	A	Former
20-cm	Cassegrain reflector	+9 42 47.25	+52 23 14.1	70	U	
27-cm	Cassegrain reflector	+9 42 46.80	+52 23 14.3	70	U	

15-cm	H_α refractor					

Karl Schwarzschild Observatory, Central Institute for Astrophysics, D-O-6901 Tautenburg, Germany

1.34/2.0-m	Zeiss Schmidt equatorial reflector	+11 42 45	+50 58 51	331	A	Fall 1960+

Lohrmann Observatory, Dresden Technical University, Mommsenstrasse 13, D-O-8027 Dresden, Germany

30-cm	Sonnefeld astrograph	+13 52 18.6	+51 02 57.4	324	A	1976+
30-cm	Heyde refractor	+13 43 47.2	+51 01 52.0	171	A	1957+
10-cm	Zeiss transit instrument	+13 43 59	+51 03 16.0	121	A	1957+
20-cm	Heyde refractor	+13 43 51	+51 01 51	171	EU	1957+
11-cm	Zeiss refractor	+13 43 51	+51 01 51	171	EU	?-1978; former
20-cm	Medial telescope	+13 43 51	+51 01 51	171	EU	?-1965
10-cm	Sucher telescope	+13 43 51	+51 01 51	171	EU	1957+

Munich University Observatory, Munich University, Scheinerstrasse 1, D-W-8000 Munich 80, Germany

19-cm	Askania vertical circle	+11 36 30.3	+48 08 44.3	529	A	?-1954; to Mt. Stromlo Obs., Australia
10-cm	Reinfelder-Hertel refractor	+11 36 27	+48 08 48	535	EU	
20-cm	Reinfelder refractor	+11 36 27	+48 08 48	535	EU	
28.4-cm	Fraunhofer/Merz & Mahler refractor					1835-?
16.2-cm	Repsold meridian circle					
11.4-cm	double photographic refractor					
19-cm	Reinfelder telescope					
11.4-cm	Reichenbach meridian circle					1819-?
75-mm	Utzschneider-Fraunhofer heliometer					c.1820-?; museum

Potsdam Astrophysical Observatory, Central Institute for Astrophysics, Telegrafenberg, D-O-1560 Potsdam, Germany

80/50-cm	Steinheil-Repsold equatorial double refractor	+13 03 57.9	+52 22 56.0	107	A	1899+
50/70-cm	catadioptric Schmidt camera					To Mt. Rozhen Obs.
70-cm	Cassegrain reflector					
60-cm	solar tower telescope					1924+
40-cm	Schmidt reflector					1905+
28-cm	Merz astrographic refractor					
20-cm	double horizontal camera					
20-cm	astrograph					

Remeis Observatory, Erlangen-Nürnberg University, Astronomical Institute, Sternwartestrasse 7, D-W-8600 Bamberg, Germany

60-cm	Cassegrain reflector	+10 53 24	+49 53 06.4	288	A	
26.4-cm	refractor	+10 53 21	+49 53 07	288	EU	
	Repsold heliometer	+10 53 24	+49 53 06.4	288	A	Former
15-cm	cometseeker	+10 53 24	+49 53 06.4	288	A	
40-cm	Cassegrain reflector	+10 53 24	+49 53 06	288	A	?-c.1965; to Boyden Obs., South Africa
13.5/13.5-cm	twin astrograph					Former

Schauinsland Observatory, Kiepenheuer Institute for Solar Physics, Schöneckstrasse 6, D-W-7800 Freiburg-im-Breisgau, Germany

45-cm	solar tower refractor	+7 54 21.7	+47 54 51.9	1240	PD	With 60-cm coelostat
15-cm	refractor	+7 54 20.2	+47 54 51.0	1240	PD	
25-cm	Cassegrain reflector					Former
20-cm	solar tower refractor					With 30-cm coelostat

Sonneberg Observatory, Central Institute for Astrophysics, Sternwartestrasse 32, Postfach 55-27/28, D-O-6400 Sonneberg-Neufang, Germany

60-cm	Cassegrain reflector	+11 11 32.85	+50 22 41.4	640	A	1973+
60-cm	Cassegrain reflector	+11 11 33.1	+50 22 42.2	643	G	1959+
50/70-cm	Schmidt camera	+11 11 29.1	+50 22 44.4	647	G	1959+
40-cm	Zeiss astrograph	+11 11 31.8	+50 22 43.2	642	G	1965+
13.5-cm	Zeiss visual refractor	+11 11 31.05	+50 22 42.3	642	G	1973+
30/30-cm	twin Schmidt telescope	+11 11 29.8	+50 22 43.4	640	A	Former
40-cm	astrograph	+11 11 30.95	+50 22 44.4	646	G	1961+
13-cm	refractor	+11 11 31.4	+50 22 44.4	630	U	Former
15-cm	equatorial telescope	+11 11 31.2	+50 22 38.6	630	G	Former
10-cm	Zeiss refractor	+11 11 31.2	+50 22 38.6	630	G	Former
8-cm	Zeiss refractor	+11 11 31.2	+50 22 38.6	630	G	Former
20-cm	Zeiss refractor	+11 11 29.8	+50 22 44.4	640	U	Former
16.2-cm	Merz refractor	+11 11 30.9	+50 22 41.8	640	U	Former
14.8-cm	Merz refractor	+11 11 32.5	+50 22 43.4	640	U	Former
35-cm	reflector	+11 11 31.2	+50 22 42.4	640	U	Former
46-cm	reflector	+11 11 31.8	+50 22 43.3	640	U	Former
11-cm	Zeiss cometseeker	+11 11 29.4	+50 22 43.4	640	U	Former
	sky patrol instrument	+11 11 30.15	+50 22 44.4	646	G	1959+

State Observatory, Königstúhl, D-W-6900 Heidelberg, Germany

16-cm	Reinfelder meridian circle	+8 43 16.95	+49 23 54.6	570	A	Museum
40/39.6/25-cm	Bruce Brashear/DePauly astrograph	+8 43 31	+49 23 57	570	EU	1900+
21.7-cm	Merz refractor	+8 43 16.9	+49 23 54.6	570	A	
32.7-cm	Steinheil refractor					Museum
16.4-cm	Steinheil refractor					Museum
13.5-cm	Steinheil refractor					Museum
12.1-cm	Reinfelder cometseeker					Museum
66-mm	Bamberg transit instrument					Museum
81-mm	Heyde transit instrument					Museum
71.5-cm	Zeiss reflector					1906+
50-cm	photometric Cassegrain reflector					?-c.1966; to Boyden Obs., South Africa
15.9/15.9/16.2-cm	Voigtländer/Reinfelder photographic triplet					Museum
15.9-cm	Fraunhofer heliometer					Museum
75-cm	Zeiss altazimuth telescope					1978+
70-cm	Cassegrain reflector					1989+
26/40-cm	Schmidt reflector					1963+

Stockert Radio Observatory, Friedrich Wilhelms University-Bonn, Radio Astronomy Institute, Auf dem Hügel 71, D-W-5300 Bonn 1, Germany

25-m	steerable altazimuth parabolic antenna	+6 43 23.45	+50 34 12.9	435	EU	1956+
10-m	equatorial paraboloid	+6 43 27.3	+50 34 14	418	G	1967-1975

Stuttgart Observatory, Mittlerer Schlossgarten, Willy-Brandt-Strasse 25,D-W-70173 Stuttgart, Germany

25-cm Astro-Physics/Mikage triple refractor	+9 35 50.20	+48 52 30.4	547	U	

Swabian Observatory, Geschäftsstelle 59a, D-W-70174 Stuttgart, Germany

17.5-cm Zeiss refractor	+9 11 50.9	+48 47 00.7	344	G	
20-cm Staus refractor	+9 11 51.0	+48 47 00.3	350	PD	
35-cm Celestron Schmidt/Cassegrain reflector	+9 11 51.0	+48 47 00.2	350	EU	
12.5-cm Zeiss refractor	+9 11 50.8	+48 47 00.7	354	A	Former
23-cm refractor	+9 11 50.8	+48 47 00.5	351	A	Former
14/7-cm double astrograph					Former
17.5-cm Astro-Physics Starfire telescope					

Tremsdorf Radio Astronomy Observatory, Central Institute for Astrophysics, D-O-1501 Tremsdorf, Germany

10.5-m paraboloid radio antenna	+13 08 12.3	+52 17 06.3	35	U	
8-m radio telescope					Former

Tübingen University Astronomical Observatory, Tübingen University, Waldhäuser Strasse 64, D-W-7400 Tübingen, Germany

40-cm Cassegrain telescope	+9 03 32	+48 32 20	470	U	
30-cm refractor	+9 03 22.8	+48 32 19.0	480	EU	
3-m 7.5-cm wavelength radio telescope					
3-m 3-cm wavelength radio telescope					
7-m parabolic antenna	+9 35	+47 46	450	U	Ravensburg site
dipole reflector	+9 35	+47 46	450	U	Ravensburg site

Wendelstein Solar Observatory, Munich University, Institute for Astronomy and Astrophysics, Wendelsteingipfel, D-W-8163 Bayrischzell, Germany

10-cm coronagraph	+12 00 48.9	+47 42 28.0	1838	U	

Wilhelm Foerster Observatory, Munsterdamm 90, (Schöneberg), D-W-1000 Berlin 41, Germany

32-cm refractor	+13 21 11.2	+52 27 31.7	78	G	From Urania Obs., Berlin
75-cm reflector					1973+
15-cm refractor					1968+
50-cm heliostat					1987+
20-cm reflector					1950's+
20-cm Grandt equatorial refractor					
18-cm Newtonian reflector					
10-cm Grandt refractor					
10-cm Steinheil refractor					
68-mm Merz refractor					
12.5-cm Leitz equatorial astrograph					
20-cm Grandt equatorial Newtonian reflector					
18-cm Grandt equatorial refractor					

GREECE

Kryonerion Astronomical Observatory, National Observatory of Athens, Astronomical Institute, P.O. Box 20048, GR-118 10 Athens, Greece

1.22-m Grubb-Parsons Cassegrain/Coudé reflector	+22 37 15	+37 58 22.4	905	G	09/1975+

National Observatory of Athens, Astronomical Institute, P.O. Box 20048, GR-118 10 Athens, Greece

40-cm	Doridis equatorial visual refractor	+23 43 10	+37 58 24	110	EU	
20-cm	Ionidis Browning equatorial reflector	+23 43 10	+37 58 28	110	EU	
11-cm	Secrétan refractor	+23 43 10	+37 58 28	110	EU	
6-cm	Zeiss equatorial telescope	+23 43 10	+37 58 28	110	EU	
8-cm	Merz refractor	+23 43 10	+37 58 28	110	EU	
6-cm	Polarex telescope	+23 44 52	+37 58 24	119	EU	
17-cm	Plössl equatorial refractor					1846-?
10-cm	Starke-Fraunhofer transit circle					1846-?
16-cm	Gautier meridian circle					

Pentele Astronomical Station, National Observatory of Athens, Astronomical Institute, P.O. Box 20048, GR-118 10 Athens, Greece

63-cm	Newall Cooke equatorial visual refractor	+23 51 55.2	+38 02 59.5	516	EU	05/1960+; from Cambridge Univ. Obs.
30-cm	equatorial reflector					
11-cm	equatorial photovisual refractor					
8-cm	Zeiss refractor					
5-cm	Watt's geodetic theodolite					
25-cm	Bruce astrograph					
22-cm	Schmidt camera					
25-cm	Ross lens					
2.44-m	solar radio telescope					

Stephanion Observatory, University of Thessaloníki, GR-200 08 Stephanion, Corinth, Greece

76-cm	Astro-Mechanics Cassegrain reflector	+22 49 44	+37 45 15	800	A	1971+
40-cm	reflector					1967-1973; Sonnenborgh Obs. telescope
38-cm	reflector					1967-1970; Hamburg Obs. telescope
	Doppler/laser satellite tracking station					1966+; French CNES station

University of Thessaloníki Observatory, University of Thessaloníki, Department of Astronomy, GR-540 06 Thessaloníki, Greece

20-cm	refractor	+22 57 30	+40 37 00	28	G	

GREENLAND

Incoherent Scatter Facility, Stanford Research Institute, 333 Ravenwood Avenue, Menlo Park, California 94025

32-m	antenna	−50 56 58	+66 59 12	180	U	02/1983+

HUNGARY

Gyula Observing Station, Heliophysical Observatory, P.O. Box 30, H-4010 Debrecen, Hungary

15-cm	photoheliograph	+21 16 14	+46 39 10	135	A	1972+

Heliophysical Observatory, P.O. Box 30, H-4010 Debrecen, Hungary

53-cm	Lyot Coudé coronagraph	+21 37 22	+47 33 37	132	A	1976+
25/15-cm	double photoheliograph	+21 37 20	+47 33 37	——	A	1958+
25/13-cm	double Cassegrain photoheliograph					
10-cm	modified Hale spectrohelioscope					

Konkoly Observatory, Hungarian Academy of Sciences, P.O. Box 67, H-1525 Budapest, Hungary

60-cm	Heyde-Zeiss Newtonian/Cassegrain reflector	+18 57 51.1	+47 29 58.6	474	A	1928+
19-cm	Browning-Merz refractor	+18 57 52.0	+47 29 58.5	474	A	1920+
30-cm	refractor	+18 57 52.0	+47 29 58.5	474	A	Former
60/90-cm	Schmidt reflector					Former
50-cm	reflector					Former
40-cm	reflector					Former

Piszkéstetö Mountain Station, Konkoly Observatory, P.O. Box 67, H-1525 Budapest, Hungary

1-m	Zeiss Ritchey-Chrétien reflector	+19 53 44.1	+47 55 04.2	958	D1	1975+
60/90-cm	Zeiss Schmidt reflector	+19 53 39.6	+47 55 05.9	938	D1	1962+
50-cm	Zeiss Cassegrain reflector	+19 53 37.8	+47 55 09.8	948	D1	1966+

Urania Observatory, Sánc Utca 3/B, H-1016 Budapest I., Hungary

20-cm	Heyde-Merz refractor	+19 03 51	+47 29 05.2	166	G	1947+
12.5-cm	Zeiss Cassegrain reflector					1980+
8-cm	Zeiss refractor					
63-mm	Zeiss telescope #1					
63-mm	Zeiss telescope #2					

INDIA

Gauribidanur Radio Observatory, Indian Institute of Astrophysics, Bangalore 560 034, India

	T-shaped decameter-wavelength dipole array	+77 26 07	+13 36 12	686	U	1980+

Gurushikhar Infrared Observatory, Physical Research Laboratory, Hill View, Mount Abu 307 501, India

1.2-m	infrared reflector	+72 46 47	+24 39 08	1700	IN	
35-cm	Schmidt Cassegrain reflector					

Japal-Rangapur Observatory, Osmania University, Department of Astronomy, Hyderabad 500 007, India

1.22-m	reflector	+78 43 42	+17 05 54	695	A	1968+; Nizamiah Obs. telescope
13.05-m	equatorial radio telescope	+78 43 42	+17 05 54	695	A	02/1980+

Kodaikanal Solar Observatory, Indian Institute of Astrophysics, Kodaikanal 624 103, India

38-cm	solar tower refractor	+77 28 07.0	+10 13 50.0	2343	A	With 61-cm coelostat
51-cm	Bhavnagar telescope					Inactive
20-cm	refractor					Inactive
30-cm	solar telescope					
15-cm	solar telescope					
76-cm	solar telescope					

	2-element interferometer					1952-?; former

National Centre for Radio Astrophysics, c/o Pune University Campus, Post Bag 3, Ganeshkhind, Pune 411007, India

	Giant Metrewave Radio Telescope (GMRT)	+74 03	+19 06	650	U	30 45-m parabolic dishes

Nizamiah Observatory, Osmania University, Department of Astronomy, Hyderabad 500 007, India

20-cm	astrograph	+78 27 12	+17 25 54.3	554	A	
38-cm	Grubb refractor	+78 27 12	+17 25 54.3	554	A	
76-mm	portable telescope	+78 27 12	+17 25 54.3	554	A	
	transit instrument					

Radio Astronomy Center, Tata Institute of Fundamental Research, P.O. Box 8, Udhagamandalam, Ootacamund 643 001, India

530x30-m	Ooty Synthesis Radio Telescope (OSRT)	+76 40 02	+11 22 56	2150	A	1970+
B=4-km	radio interferometer	+76 40 02	+11 22 56	2150	A	
	VHE gamma ray telescope array					Ten 90-cm and eight 1.5-m mirrors

Uttar Pradesh State Observatory, Manora Peak, Naini Tal 263 169 (U.P.), India

79/51-cm	Baker-Nunn Schmidt camera	+79 27 25.51	+29 21 39.0	1927	S	08/1958+; Smithsonian Aph. Obs. tel.
1.04-m	Zeiss Cassegrain/Coudé reflector					1972+
56-cm	Cox-Hargreaves Newtonian/Cassegrain reflector					1968+
52-cm	Cox-Hargreaves-Thompson reflector					
38-cm	Fecker reflector					1961+
25-cm	Cooke refractor					
15-cm	Zeiss reflector					1960+
46-cm	coelostat					
25-cm	Cox-Hargreaves off-axis Cassegrain telescope					1966+
25/25-cm	Czerny-Turner horizontal spectrograph					

Vainu Bappu Observatory, Indian Institute of Astrophysics, Kavalur, Alangayam (N.A.), Tamil Nadu 635 701, India

2.3-m	Vainu Bappu equatorial reflector	+78 49 34.8	+12 34 34.8	725	A	10/1985+
1.02-m	Zeiss reflector					1972+
75-cm	reflector					1980+
60/45-cm	Schmidt reflector					1985+
40-cm	reflector					1985+
38-cm	reflector					1968+
	small telescope					1967-1972

INDONESIA

Bosscha Observatory, Bandung Institute of Technology, Lembang 40391, Java, Indonesia

12.7-cm	meridian circle	+107 36 57.6	−6 49 32.0	1300	G	From Melbourne Obs.
61-cm	Zeiss double refractor	+107 36 57.6	−6 49 32.0	1300	G	1928+
51/71-cm	UNESCO Schmidt camera	+107 36 57.6	−6 49 32.0	1300	G	1960+
37-cm	Bamberg refractor	+107 36 57.6	−6 49 32.0	1300	G	1927+
15-cm	Secrétan telescope	+107 36 54.7	−6 49 32.1	1300	A	Former
12.7-cm	Zeiss telescope	+107 36 54.4	−6 49 32.1	1300	A	

18-cm	Merz telescope	+107 36 58.9	−6 49 35.3	1300	A	Destroyed
12-cm	visual refractor					1951+
45-cm	photometric telescope	+107 36 54.75	−6 49 32.1	1300	A	1989+

IRELAND

Dunsink Observatory, Castleknock, Dublin 15, Ireland

38-cm	With/Grubb Newtonian reflector	−6 20 13.35	+53 23 17.6	96	EU	1888-1921; refitted to 71-cm
71-cm	Cassegrain reflector	−6 20 13.35	+53 23 17.6	96	EU	1955-1964; refitted from 38-cm; former
16-cm	Pistor-Martin meridian circle	−6 20 14.36	+53 23 17.8	85	EU	1868-1927; former
30-cm	Cauchoix-Grubb equatorial refractor	−6 20 09.32	+53 23 16.8	85	EU	1868+
10.5-cm	Ramsden transit instrument	−6 20 14.36	+53 23 17.8	85	EU	1785-c.1870; former
10-cm	Ramsden-Berge meridian circle	−6 20 14.64	+53 23 17.8	87	EU	1809-1840; D=2.44-m; former
R=1.02-m	Bird quadrant	−6 20 14.64	+53 23 17.8	87	EU	1797-?; from Royal Greenwich Obs.; former
35-cm	solar tower Cassegrain reflector	−6 20 14.64	+53 23 17.8	93	EU	1949-1970; has 40-cm coelostat; former
13-cm	Sharp equatorial refractor	−6 20 13.35	+53 23 17.6	96	EU	c.1834-1885; former
5-cm	portable Tulley equatorial telescope					

ISRAEL

The Florence and George Wise Observatory, Tel Aviv University, Ramat Aviv, Tel Aviv 69978, Israel

1.02-m	Boller & Chivens Cassegrain reflector	+34 45 48	+30 35 45	874	G	06/1971+

ITALY

Arcetri Astrophysical Observatory, Florence University, Largo Enrico Fermi 5, I-50125 Florence, Italy

36-cm	Amici equatorial refractor	+11 15 19.20	+43 45 14.4	184	A	
	Peratoner equatorial telescope	+11 15 19.5	+43 45 14.4	184	A	Former
18-cm	Regia Marina equatorial telescope	+11 15 19.5	+43 45 14.4	184	A	Former
30-cm	solar tower telescope					1924+
40-cm	Bamberg telescope					Former
25-cm	Schmidt reflector					Former
52-cm	telescope					Former
9-cm	meridian circle					Former
5.03-m	radio antenna	+11 15 19.5	+43 45 14.4	184	A	1966-?; former
1.22-m	radio dish	+11 15 19.5	+43 45 14.4	184	A	1966-?; former

Asiago Astrophysical Observatory, Padua University, Via dell'Osservatorio 8, I-36012 Asiago, Italy

1.22-m	Newtonian/Cassegrain reflector	+11 31 42.9	+45 51 44.7	1045	A	1942+
50/40-cm	Schmidt reflector	+11 31 42.9	+45 51 44.7	1045	A	Former; to Mt. Ekar Obs.
67/92-cm	Schmidt reflector	+11 31 36.00	+45 51 40	1060	A	1967+; Padua Obs. telescope

Bologna University Observatory, Bologna University, Via Zamboni 33, I-40126 Bologna, Italy

1.52-m	Ritchey-Chrétien equatorial reflector	+11 20 12	+44 15 32	785	G	1975+
60-cm	Zeiss Cassegrain reflector	+11 20 04	+44 15 23	795	G	11/1936+

Brera-Milan Astronomical Observatory-Merate, Via E. Bianchi 46, I-22055 Merate, Italy

	OPL #32 Danjon astrolabe	+9 25 42.54	+45 41 57.5	340	A	10/1969+
1.00-m	Zeiss Newtonian/Cassegrain reflector	+9 25 42	+45 41 55.5	340	U	1929+
48.7-cm	Schiapparelli Merz-Repsold refractor	+9 25 42.7	+45 41 54.1	380	A	1936+
1.37-m	Ruths Cassegrain reflector	+9 25 42	+45 41 57.0	340	U	1968+

Brera-Milan Astronomical Observatory-Milan, Via Brera 28, I-20121 Milan, Italy

21.8-cm	refractor	+9 11 27	+45 28 00.6	146	A	
15.6-cm	Merz refractor	+9 11 27	+45 28 00.6	146	A	
48.7-cm	Schiapparelli Merz-Repsold refractor	+9 11 27	+45 28 00.6	146	A	?-1936; to Brera-Milan Obs., Merate
20-cm	Merz refractor	+9 11 24	+45 28 22	149	EU	
95-mm	Ertel meridian circle					
1-m	Zeiss reflector					
55-mm	Bamberg transit instrument					
	Canivet transit instrument					1763-c.1775
R=1.83-m	Canivet mural quadrant					1768-c.1840
R=1.22-m	Sisson equatorial sector					1775-1862; O=10-cm
	Dollond-Megele transit instrument					1775-1812
R=2.44-m	Ramsden mural quadrant					1791-1840; O=76-mm
D=91-cm	Reichenbach vertical repeating circle					1809-1850; O=81-mm
	Reichenbach transit instrument					1812-?
10-cm	Starke/Reichenbach-Utz. meridian circle					1834-?
30-cm	Amici reflector					1840-1874

Cagliari Astronomical Observatory, Via Ospedale 72, I-09124 Cagliari (Sardinia), Italy

8-cm	visual zenith tube	+8 58 37.1	+39 08 12.4	205	A	1979-1984
25-cm	photographic zenith tube	+8 58 37.50	+39 08 11.9	206	A	1980+
	Danjon astrolabe	+8 58 37.71	+39 08 12.5	204	A	1981-1984
	Doppler station	+8 58 25.98	+39 08 12.3	195	E1	1980+
50-cm	SLR Cassegrain/Coudé telescope					

Capodimonte Astronomical Observatory, Via Moiariello 16, I-80131 Naples, Italy

9-cm	Bamberg transit instrument	+14 15 18.15	+40 51 46.3	150	A	
16-cm	meridian circle	+14 15 18.66	+40 51 47.1	150	A	
30-cm	equatorial reflector	+14 15 14.47	+40 51 45.7	154	A	
21-cm	equatorial refractor	+14 15 17.62	+40 51 45.7	154	A	
13.5-cm	Merz refractor	+14 15 24	+40 51 53	164	EU	
18-cm	Fraunhofer equatorial refractor					1817-?
8-cm	zenith telescope					
11.5-cm	Reichenbach transit instrument					1817-?
83-mm	Reichenbach-Utz./Fraunhofer equat. refractor					1814-?
10.8-cm	Reichenbach meridian circle					1814-?

Catania Astrophysical Observatory, Catania University, Viale Andrea Doria 6, Cittá Universitaria, I-95125 Catania (Sicily), Italy

15-cm	Cooke equatorial refractor	+15 05 09	+37 30 13.3	47	A	?-1956; former
32-cm	Steinheil equatorial refractor					Former
33/21-cm	equatorial photovisual telescope					Former
	prominence coronagraph					Former
15-cm	refractor #1					
15-cm	refractor #2					

Chaonis Observatory, Via Zara 20, I-33083 Chions (Pordenone), Italy

60-cm	Wright Schmidt reflector	+12 42 42.1	+45 50 36.5	15	A	1985+
40-cm	Cassegrain/Newtonian reflector	+12 42 42.1	+45 50 36.5	15	A	1977-?; former
20-cm	Schmidt/Cassegrain reflector	+12 42 42.1	+45 50 36.5	15	A	1977+
12-cm	astrograph	+12 42 42.1	+45 50 36.5	15	A	1977+

Collurania Astronomical Observatory, Via Vicereale, I-64100 Teramo, Italy

50-cm	Askania equatorial reflector	+13 44	+42 39 30	388	A	?-1992
39.4-cm	Cooke equatorial refractor	+13 44	+42 39 27	408	A	
20-cm	Zeiss equatorial astrographic refractor	+13 44	+42 39 30	372	A	
16.5/8-cm	Cooke double photographic camera					
75-mm	Repsold transit instrument					
	Troughton & Simms zenith telescope					

Damecuta Observatory, I-80071 Anacapri, Italy

35-cm	domeless Zeiss Coudé refractor	+14 11 45	+40 33 30	137	U	1965+

International Latitude Observatory, Carloforte (Sardinia), Italy

	Dollond telescope	+8 18 43.5	+39 08 09.0	22	U	Former
10.8-cm	Wanschaft visual zenith tube	+8 18 44.0	+39 08 08.9	20	A	1899-1987
12-cm	transit telescope	+8 18 44.0	+39 08 09.0	20	A	1989+
	coronagraph					

Medicina Radio Astronomy Observatory, Radio Astronomy Institute, Localita Aia Cavicchio, Via Fiorentina, I-40059 Medicina, Italy

32-m	steerable paraboloid	+11 38 42.35	+44 31 12.0	44	G	
1200x30-m	Mills Cross T-shaped array	+11 38 43	+44 31 14	41	U	1968+

Mount Ekar Observatory, Padua University, Via dell'Osservatorio 8, I-36012 Asiago, Italy

1.82-m	Copernicus Cassegrain reflector	+11 34 16.9	+45 50 36.2	1350	A	03/1973+
50/40-cm	Schmidt reflector	+11 34 16	+45 50 36	1350	A	1981+; from Asiago Aph. Obs.

Padua Astronomical Observatory, Vicolo dell'Osservatorio 5, I-35122 Padua, Italy

	Bamberg transit instrument	+11 52 17.2	+45 24 01.3	38	U	
11.7-cm	Starke equatorial tower telescope	+11 52 19.3	+45 24 01.3	62	U	
11.7-cm	Starke altazimuth refractor	+11 52 09	+45 24 10	32	EU	
18.7-cm	Dembowski equatorial refractor	+11 52 07	+45 24 10	17	EU	
84-mm	Fraunhofer telescope #1	+11 52 19.6	+45 24 01.3	32	U	
84-mm	Fraunhofer telescope #2	+11 52 19.3	+45 24 01.3	32	U	
R=2.44-m	Ramsden mural quadrant					1779-?; O=76-mm

10-cm Reichenbach transit instrument					1810-?
10-cm Starke meridian circle					1837-?

Palermo University Astronomical Observatory, Palermo University, Palazzo dei Normanni, I-90134 Palermo (Sicily), Italy

25-cm Merz equatorial refractor	+13 21 30	+38 06 44	72	A	
12-cm meridian circle	+13 21 30	+38 06 44	72	A	
7-cm transit instrument	+13 21 30	+38 06 44	72	A	
8-cm Wanschaff zenith tube					
1.52-m Ramsden vertical circle					
76-mm Ramsden altazimuth circle					1790-1859
76-mm Ramsden transit instrument					1790-1859
76-mm Troughton equatorial refractor					1804-1894

Rome Observatory, Viale del Parco Mellini 84, I-00136 Rome, Italy

85-mm Bamberg reversible transit instrument	+12 27 07.65	+41 55 19.2	152	A	1968+
39-cm Steinheil-Cavignato equatorial refractor	+12 27 13	+41 55 25	153	EU	
17-cm astrographic refractor	+12 27 12	+41 55 25	152	EU	
15.5-cm Cauchoix-Cavignato refractor	+12 27 13	+41 55 25	153	EU	
11.2-cm equatorial telescope	+12 27 11.5	+41 55 18.8	152	U	
9-cm equatorial telescope	+12 27 11.5	+41 55 18.8	152	U	
25-cm equatorial telescope					
15-cm horizontal camera with coelostat Schmidt reflector					
22-cm meridian circle					
10-cm meridian circle					
45-cm solar telescope					1951+

San Vittore Observatory, Via San Vittore 44, I-40136 Bologna, Italy

45-cm Newtonian reflector	+11 20 30.4	+44 28 04.5	280	G	1969+
25/32/61-cm Schmidt camera	+11 20 30.4	+44 28 04.5	280	G	1981+
11-cm astrograph	+11 20 30.4	+44 28 04.5	280	G	1969-1981

Stellar Station, Catania Astrophysical Observatory, Viale Andrea Doria 6, Cittá Universitaria, I-95125 Catania (Sicily), Italy

91-cm Cassegrain/Newtonian spar reflector	+14 58 25.5	+37 41 30.1	1735	G	1965+
30-cm Cassegrain reflector #1	+14 58 30	+37 41 32.6	1728	G	
30-cm Cassegrain reflector #2	+14 58 30	+37 41 32.6	1728	G	
61/41-cm Schmidt/quasi-Cassegrain reflector	+14 58 24	+37 41 31.8	1732	G	
33-cm Steinheil refractor	+14 58 24	+37 41 31.8	1732	G	

Trieste Astronomical Observatory, Via G.B. Tiepolo 11, C.P. Succursale Trieste 5, I-34131 Trieste, Italy

1-m Cassegrain reflector	+13 52 31	+45 38 28	400	A	1975+
50-cm Zeiss Newtonian reflector	+13 45	+45 38	400	U	1967+; Basovizza station
30-cm Cassegrain reflector	+13 45	+45 38	400	U	1967+; Basovizza station
25-cm Reinfelder-Hertel equatorial refractor #1	+13 46 13.5	+45 38 35.6	74	A	?-1939
25-cm Reinfelder-Hertel equatorial refractor #2	+13 46 13.5	+45 38 35.6	78	A	1945+
16-cm Steinheil equatorial refractor	+13 46 31.5	+45 38 45	79	EU	
16-cm Troughton & Simms meridian circle					
81-mm Heyde transit instrument					

D=10-m	VHF/UHF equatorial parabolic radio telescope	+13 45	+45 38	400	U	1969+; Basovizza station
B=73-m	EW interferometer					1970+; at Basovizza station
	dihedral fixed antenna VHF radio telescope					1967+; at Basovizza station

Turin Astronomical Observatory, Strada dell'Osservatorio 20, I-10025 Pino Torinese, Italy

1.05-m	astrometric reflector	+7 46 29.2	+45 02 16.3	622	A	1974+
10-cm	Bamberg photoelectric reversible transit telescope	+7 46 37.74	+45 02 20.9	610	A	1980+
30-cm	Merz-Cavignato equatorial refractor	+7 46 34.5	+45 02 17.6	622	EU	Inactive
13-cm	Zeiss photographic refractor	+7 46 35.8	+45 02 21.0	618	EU	
10-cm	Dollond refractor	+7 46 33	+45 02 18	620	A	1912-?; inactive
20-cm	Zeiss astrograph	+7 46 35.8	+45 02 21.0	618	A	1921+
46-cm	Cassegrain reflector	+7 46 34.50	+45 02 17.6	622	A	1971+
38/42-cm	photovisual triple refractor	+7 46 33.0	+45 02 18	620	A	1978+
25-cm	Cassegrain reflector	+7 46 29.25	+45 02 16.3	622	A	1974+
20-cm	equatorial photographic telescope	+7 46 29.25	+45 02 16.3	622	A	1990+
10-cm	meridian circle					Inactive
16-cm	equatorial refractor					Inactive

JAPAN

Dodaira Observatory, Togikawa, Hiki, Saitama 355-03, Japan

91-cm	Cassegrain reflector	+139 11 46.8	+36 00 10.2	879	TO	
50-cm	Baker-Nunn camera	+139 11 43.16	+36 00 08.6	856	TO	From Natl. Ast. Obs., Mitaka
	laser satellite tracker	+139 11 42.00	+36 00 08.7	855	TO	
20-cm	polar tube	+139 11 38.30	+36 00 15.5	860	TO	
10-cm	refractor					
50-cm	Cassegrain reflector					
50-cm	Schmidt camera					
3.8-m	reflector					
	lunar laser ranging (LLR) system					

Fujigane Station, Nagoya University, 3-13 Honohara, Toyokawa, Aichi 442, Japan

100x20-m	cylindrical parabolic antenna	+138 36 42	+35 25 36	1015	G	1980+; 256-dipole array

Hida Observatory, Kyoto University, Kamitakara, Gifu 506-13, Japan

65-cm	Zeiss refractor	+137 18 29.21	+36 14 56.2	1276	TO	
60-cm	Tsugami reflector	+137 18 28.19	+36 14 58.7	1286	TO	
60-cm	domeless Zeiss telescope	+137 18 33.98	+36 14 55.3	1292	TO	

Hiraiso Solar Terrestrial Research Center, Communications Research Laboratory, 3601 Isozaki-machi, Nakaminato, Ibaraki-ken 311-12, Japan

10-m	equatorial paraboloid	+140 37 31	+36 21 58	27	TO	1988+
6-m	equatorial paraboloid	+140 37 31	+36 21 58	27	TO	1975+
1.1-m	altazimuth paraboloid	+140 37 31	+36 21 58	27	TO	1981+
10-m	altazimuth paraboloid	+140 40 00	+35 57 12	25	TO	1980+
10-m	equatorial paraboloid	+140 37 31	+36 21 58	27	TO	1970+

Kagoshima Space Center, University of Tokyo, Institute of Space and Aeronautical Science, 4-6-1 Komaba, Meguro-ku, Tokyo 153, Japan

60-cm	Gregorian reflector	+131 04 02.59	+31 13 43.7	228	TO	
	satellite/rocket telemetry station	+131 04 45	+31 15 00	180	TO	
1.2-m	paraboloid					

Kashima Space Communications Center, Communications Research Laboratory, 893-1 Hirai, Kashima, Ibaraki-ken 314, Japan

26-m	altazimuth parabolic antenna	+140 39 57.83	+35 57 03.2	45	TO	
30-m	altazimuth paraboloid					
	yagi antenna					

Kiso Observatory, Mitake-mura, Kiso-gun, Nagano-ken 397-01, Japan

1.05/1.50-m	Nikon Schmidt/Cassegrain equatorial reflector	+137 37 42.2	+35 47 38.7	1130	TO	1976+

Kwasan Observatory, Kyoto University, Yamashina, Kyoto 607, Japan

45-cm	Zeiss refractor	+135 47 36.15	+34 59 40.1	221	A	
18-cm	Zeiss-Xartorius equatorial refractor	+135 47 33	+34 59 40	222	U	1910+
30-cm	Cooke equatorial refractor	+135 47 33	+34 59 40	222	U	Inactive
10-cm	refractor	+135 47 33	+34 59 40	222	U	Inactive
25-cm	reflector	+135 47 33	+34 59 40	222	U	Inactive
30-cm	reflector	+135 47 33	+34 59 40	222	U	Inactive
8-cm	refractor	+135 47 46	+34 59 26	234	U	Inactive
13-cm	reflector	+135 47 45	+34 59 25	228	U	Inactive
12.7-cm	cometseeker	+135 47 46	+34 59 26	234	U	Inactive
70-cm	Nishimura coelostat					
33-cm	reflector					Inactive
17-cm	triplet telescope					Inactive
9-cm	Askania transit instrument					Inactive
20-cm	coelostat					Inactive
60-cm	Cassegrain reflector					Former; to Hida Obs.
30-cm	coelostat					

Kyoto University Astronomy Dept. Observatory, Kyoto University, Dept. of Astronomy, Oiwake-cho, Kitashirakawa, Sakyo-ku, Kyoto 606, Japan

40-cm	Cassegrain reflector	+135 47 09.6	+35 01 39.0	86	TO	1980+
20-cm	cometseeker	+135 46 45	+35 01 37	55	A	Former
15-cm	reflector	+135 47 10.0	+35 01 39.0	82	TO	1980+
76-mm	reflector	+135 46 45	+35 01 37	55	A	Former
17-cm	reflector	+135 46 45	+35 01 37.1	55	A	Former
60-cm	reflector	+135 57 21	+34 28 02	389	TO	1987+; Ouda station
40/70-cm	Schmidt camera	+135 57 21	+34 28 02	389	TO	Former; Ouda station

Kyoto University Physics Dept. Observatory, Kyoto University, Department of Physics, Oiwake-cho, Kitashirakawa, Sakyo-ku, Kyoto 606, Japan

40-cm	reflector	+135 47 13.1	+35 01 41.8	80	TO	1971+
1.02-m	reflector	+137 37 00.0	+35 47 00	1050	TO	1973+; near Agenmatsu

Mizusawa Astrogeodynamics Observatory, National Astronomical Observatory, 2-12 Hoshigaoka-machi, Mizusawa, Iwate-ken 023, Japan

20-cm	Kogaku photographic zenith telescope #1	+141 07 51.90	+39 08 03.3	61	A	1955-1975
25-cm	photographic zenith telescope #2	+141 07 52.88	+39 08 03.2	64	A	1975+
10-cm	Danjon astrolabe	+141 07 54.05	+39 08 03.5	61	A	1964-1984
11-cm	Askania-Bamberg visual zenith tube	+141 07 46.5	+39 08 03.4	61	U	1926-1986
20-cm	Seisakusho coelostat					
15-cm	Kogaku equatorial telescope					
17.8-cm	Cookson floating zenith telescope					1939-1987
10.8-cm	Wanschaff visual zenith telescope					1898-1927
9-cm	transit instrument					
8-cm	transit instrument					

Nagoya University Radio Astronomy Laboratory, Nagoya University, Department of Astrophysics, Furo-cho, Chikusa-ku, Nagoya 464, Japan

B=16.4-m	8-element solar interferometer	+136 58 24	+35 08 51	75	TO	Eight 40-cm paraboloids

National Astronomical Observatory, University of Tokyo, 2-21-1 Osawa, Mitaka-shi, Tokyo 181, Japan

20-cm	photographic zenith tube	+139 32 29.03	+35 40 20.7	58	A	
20-cm	Gautier meridian circle	+139 32 26.70	+35 40 19.4	61	A	1903+
65/38-cm	Zeiss equatorial photographic refractor	+139 32 23.8	+35 40 15.7	68	TO	
10-cm	monochromatic heliograph	+139 32 28.9	+35 40 12.5	60	TO	
20-cm	Zeiss cometseeker	+139 32 29.7	+35 40 25	57	U	
20-cm	Zeiss refractor	+139 32 36.3	+35 40 17	57	U	
9-cm	refractor	+139 32 30	+35 40 25	57	U	
11-cm	refractor	+139 32 34.5	+35 40 16	57	U	
12-cm	portable refractor	+139 32 36	+35 40 16	57	U	
55-cm	refractor	+139 32 33	+35 40 25	57	U	
15-cm	refractor	+139 32 35.25	+35 40 12	57	U	
10-cm	portable refractor	+139 32 30	+35 40 21	57	U	
87-mm	portable refractor	+139 32 36	+35 40 17	57	U	
50-cm	SAO Baker-Nunn camera	+139 32 28.22	+35 40 11.1	60	TO	Smithsonian Aph. Obs. instrument
19-cm	Zeiss photoelectric meridian circle					1982+
48-cm	solar tower telescope					Inactive
13-cm	transit instrument					
9-cm	transit instrument					
30-cm	astrograph					
20.3-cm	Brashear astrographic refractor					
12.8-cm	Steinheil equatorial refractor					
16.2-cm	Merz equatorial refractor					
14-cm	monochromatic heliograph					
30-cm	reflector					
6-m	altazimuth parabolic radio telescope	+139 32 14.6	+35 40 19.7	65	TO	
10-m	parabolic radio antenna	+139 32 24.3	+35 40 18.2	70	U	
80-cm	paraboloid					
11-m	paraboloid					
24-m	spherical radio reflector					

Nobeyama Cosmic Radio Observatory, 1419 Nobeyama, Minamimaki-mura, Minamisaku-gun, Nagano-ken 384-13, Japan

45-m	radio telescope	+138 29	+35 56	1350	U	
	5-element interferometer	+138 29	+35 56	1350	U	Five 10-m telescopes

Nobeyama Solar Radio Observatory, 1419 Nobeyama, Minamimaki-mura, Minamisaku-gun, Nagano-ken 384-13, Japan

45-m	radio telescope	+138 28 46	+35 56 19	1350	TO	
B=2.33x1.44-km	compound interferometer	+138 28 46	+35 56 19	1350	TO	1970+
B=19-m	multi-correlator interferometer	+138 28 46	+35 56 19	1350	TO	

Norikura Solar Observatory, Mount Norikura, Azumi-mura, Nagano 390-15, Japan

10-cm	Lyot coronagraph	+137 33 19.2	+36 06 49.5	2876	TO	1950+
25-cm	Coudé coronagraph	+137 33 21	+36 06 50	2871	TO	1972+
10-cm	infrared coronagraph					1989+

Okayama Astrophysical Observatory, Kamogata-cho, Asakuchi-gun, Okayama-ken 719-02, Japan

1.88-m	Grubb-Parsons reflector	+133 35 47.29	+34 34 26.1	372	TO	1960+
91-cm	Nikon Cassegrain reflector	+133 35 46.6	+34 34 22.8	365	TO	
64-cm	Nikon Coudé reflector	+133 35 46	+34 34 18	350	TO	

Sendai Astronomical Observatory, 1-1, Sakuragaoka-koen, Sendai 980 MZ, Japan

41-cm	equatorial Newtonian/Cassegrain reflector	+140 51 56	+38 15 22	45	TO	1979+
25-cm	reflector					Former
8-cm	transit instrument					Former
20-cm	domeless solar telescope					1982+
10-cm	prominence telescope					
20/20-cm	twin astrograph	+140 46 57	+38 15 44	----	U	Ayasi station
11-cm	sky patrol camera	+140 46 57	+38 15 44	----	U	Ayasi station

Simosato Hydrographic Observatory, Japan Hydrographic Department, Simosato, Nachikatsuura-cho, Higashimuro-gun, Wakayama-ken 649-51, Japan

62-cm	Cassegrain reflector	+135 56 22.69	+33 34 27.0	63	TO	03/1981+
30-cm	reflector	+135 56 24.86	+33 34 23.8	59	TO	Former
15-cm	refractor	+135 56 24.83	+33 34 23.8	59	U	
20-cm	reflector					
	satellite laser ranging (SLR) system	+135 56 23.54	+33 34 27.5	62	TO	04/1982+
	NNSS antenna	+135 56 23.04	+33 34 27.1	68	TO	01/1981+

Sirahama Hydrographic Observatory, Japan Hydrographic Department, Sirahama 3347, Simoda, Sizuoka-ken 415, Japan

40-cm	Cassegrain reflector	+138 59 20.39	+34 42 46.7	172	TO	03/1985+
60-cm	Cassegrain reflector	+138 59 20.4	+34 42 46.6	172	TO	12/1976-12/1983
20-cm	reflector	+138 59 20.4	+34 42 46.6	172	TO	04/1969+
30-cm	reflector	+138 59 21.38	+34 42 46.0	173	TO	08/1965-03/1969
30-cm	reflector	+138 59 20.4	+34 42 46.6	172	TO	04/1969-12/1976; 01/1984-02/1985
25-cm	reflector	+138 59 21.4	+34 42 46.0	172	TO	?-11/1967
20-cm	reflector	+138 59 21.4	+34 42 46.0	172	TO	05/1968-03/1969
20-cm	reflector	+138 59 19.7	+34 42 41.8	91	TO	12/1967-05/1968
15-cm	refractor	+138 59 21.4	+34 42 46.0	172	TO	05/1965-03/1969
10-cm	refractor	+138 59 20.4	+34 42 46.6	172	TO	

Sugadaira Station, Nagoya University, 3-13 Honohara, Toyokawa, Aichi 442, Japan

100x20-m	cylindrical parabolic antenna	+138 19 16	+36 31 12	1280	G	1980+; 256-dipole array

Tohoku University Observatory, Tohoku University, Astronomical Institute, Aramaki Aza Aoba, Aoba-ku, Sendai, Miyagi 980, Japan

	transit instrument	+140 50 33.39	+38 15 26.1	153	TO	1977+
13-cm	refractor	+140 52 15	+38 15 15	20	U	?-1976

Tokyo Hydrographic Observatory, Japan Hydrographic Department, 5-3-1 Tsukiji, Chuo-ku, Tokyo 104, Japan

30-cm	reflector	+139 46 10.53	+35 39 41.4	41	TO	1976+
30-cm	reflector	+139 46 13.02	+35 39 39.4	4	TO	?-12/1972
15-cm	refractor	+139 46 10.5	+35 39 41.4	41	U	1973-1975
	transit instrument	+139 46 15.85	+35 39 39.4	——	TO	Former

Toyokawa Observatory, National Astronomical Observatory, 3-13 Honohara, Toyokawa, Aichi 442, Japan

	compound interferometer	+137 22 16.84	+34 50 10.9	18	TO	Array of 3-m radio dishes
	compound interferometer					Array of 3-m, 2-m, 1.2-m radio dishes
10-m	altazimuth paraboloid					
3.0-m	equatorial paraboloid					
2.0-m	equatorial paraboloid					
1.5-m	equatorial paraboloid					
85-cm	equatorial paraboloid					

Toyokawa Station, Nagoya University, Institute for Atmospheric Research, 3-13 Honohara, Toyokawa, Aichi 442, Japan

100x20-m	cylindrical parabolic antenna	+137 22 09	+34 50 05	25	G	c.1980+; 512-dipole array

KAZAKHSTAN

Mountain Observatory, V.G. Fesenkov Astrophysical Institute, Kamenskoje Plato, 480068 Alma-Ata, Kazakhstan

14/13-cm	Zeiss photovisual double refractor	+76 57 26.4	+43 11 16.9	1450	U	
150-cm	Hertz double Cassegrain reflector					
50/67/12-cm	Maksutov photographic telescope					
80-cm	Jena Ritchey-Chrétien reflector					1989+

KOREA, REPUBLIC OF

Bohyunsan Optical Astronomical Observatory, Junggak-li, Hwabuk-Myun, Youngchun-gun, Kyungpook 395-810, Republic of Korea

1.8-m	Ritchey-Chrétien reflector	+128 58 36	+36 09 59	1127	U	1995+
1.0-m	automatic Cassegrain reflector	+128 58 36	+36 09 59	1127	U	1995+
	4-element solar flare telescope	+128 58 36	+36 09 59	1127	U	1995+; four 20-cm reflectors

Daeduk Radio Astronomy Observatory, San 36-1, Whaam-dong, Yuseong-gu, Taejeon 305-348, Republic of Korea

13.7-m	radio telescope	+127 22 18.77	+36 23 53.2	120	A	1988+

Korea Astronomical Observatory, San 36-1, Whaam-dong, Yuseong-gu, Taejeon 305-348, Republic of Korea

20-cm	solar refractor	+127 22 18.77	+36 23 53.2	120	A	1974+

Sobaeksan Astronomical Observatory, Daegang, Danyang-gun, Chungbuk 395-810, Republic of Korea

61-cm	reflector	+128 27 22.32	+36 56 01.2	1390	A	1976+

LATVIA

Latvian State University Astronomical Observatory, Latvian State University, Boulevard Rainis 19, 226098 Riga, Latvia

8-cm	refractor	+24 07 01.5	+56 57 08	39	U	Former
10-cm	photoelectric transit telescope	+24 03 34.7	+56 57 00	11	A	c.1963+
20-cm	refractor					Former
11-cm	transit instrument					Former
65-mm	transit instrument					Former
8-cm	binoculars	+24 07 01.5	+56 57 08	39	U	
21-cm	A.E.S. camera	+24 03 31.89	+56 56 54.9	----	S	c.1964+
25-cm	A.E.S. camera	+24 03 31.68	+56 56 54.9	----	S	c.1967+
2x35-cm	A.E.S. laser telescope	+24 03 29.73	+56 56 54.9	----	S	c.1972+
1.05-m	A.E.S. laser telescope	+24 03 33.16	+56 56 54.6	----	S	c.1987+

Riga Radio-Astrophysical Observatory, Latvian Academy of Sciences, Ul. Turgeneva 19, 226524 Riga, Latvia

0.80/1.20-m	Zeiss Schmidt reflector	+24 24	+56 47	75	U	1967+
55-cm	Cassegrain reflector #1					
55-cm	Cassegrain reflector #2					
10-m	radio telescope					1958+

LITHUANIA

Vilnius Astronomical Observatory, Vilnius University, Čiurlionio 29, Vilnius 2009, Lithuania

	equatorial refractor	+25 17 11.4	+54 40 59.1	122	U	
10-cm	altazimuth telescope	+25 15 15	+54 40 59	122	U	
98-mm	Plössl altazimuth telescope	+25 15 15	+54 40 59	122	U	
10-cm	Ressel equatorial telescope	+25 15 15	+54 40 59	122	U	
15-cm	Zeiss astrographic refractor	+25 15 15	+54 40 59	122	U	
11-cm	Heyde astrographic refractor	+25 15 15	+54 40 59	122	U	
10-cm	Ramsden transit instrument					1765-1807; museum
	Merz heliostat					Museum
14-cm	reflector					1753-?; museum
63-cm	reflector					1974-1989; to Moletai Obs.
89-mm	Ramsden-Dollond refractor					1770-?; museum
R=2.44-m	Ramsden mural quadrant					1777-1807; O=89-mm; museum
10-cm	Ramsden meridian circle					1788-?; museum
R=46-cm	Reichenbach-Ertel vertical circle					1824-?; museum
	Plössl refractor					c.1825-?; museum
15-cm	Merz refractor					1840-?; museum
1-m	reflector					1980-1989; to Mt. Maydanak Obs., Uzbekistan

MEXICO

Guillermo Haro Astrophysical Observatory, National Institute of Astrophysics, Antigua "Casa Greene", Avenida Sinaloa 25, Cananea (SO) 84620, Mexico

2.11-m	Ritchey-Chrétien reflector	−110 22 58.12	+31 03 10.2	2480	G	10/1986+

National Astronomical Observatory-Ensenada, National University of Mexico, Apartado Postal 877, Ensenada (BC) 22860, Mexico

2.12-m	Ritchey-Chrétien reflector	−115 27 47	+31 02 38	2830	U	07/1979+
1.5-m	Johnson infrared photometric Cass. reflector					1970+; Univ. of Arizona telescope
84-cm	Ritchey-Chrétien reflector					1972+

National Astronomical Observatory-Tonantzintla, Institute of Astronomy-UNAM, Apartado Postal 70-264, Mexico (DF) 04510, Mexico

1-m	Cassegrain reflector	−98 18 50	+19 01 57.9	2150	U	1961+
65/75-cm	Perkin-Elmer Schmidt telescope					
30.5-cm	Carte du Ciel refractor					
1.14-m	paraboloid					

NETHERLANDS

Catholic University Astronomical Institute, Catholic University, Toernooiveld, NL-6525 ED Nijmegen, Netherlands

40-cm	Cassegrain reflector	+5 52 07	+51 49 31	62	G	
20-cm	visual refractor	+5 52 11	+51 49 26	73	G	

Dwingeloo Radio Observatory, Postbus 2, NL-7990 AA Dwingeloo, Netherlands

25-m	altazimuth parabolic reflecting antenna	+6 23 48.71	+52 48 46.7	25	G	1956+
	2-element interferometer					Two 7.5-m radio telescopes
3.5-m	equatorial radio telescope					
0.8-m	equatorial radio telescope					
10-m	radio dish					Former

Kapteyn Observatory, Mensingheweg 20, NL-9301 KA Roden, Netherlands

60-cm	Nasmyth Cassegrain reflector	+6 26 36.9	+53 07 44.3	12	EU	1965+

Leiden Observatory, Leiden National University, P.O. Box 9513, NL-2300 RA Leiden, Netherlands

30-cm	photographic refractor	+4 29 06.1	+52 09 20.5	12	A	
46-cm	Zunderman reflector	+4 29 00.9	+52 09 20.6	12	A	1937+
25-cm	refractor	+4 29 03.0	+52 09 20.1	12	A	
30-cm	reflector	+4 29 03	+52 09 19.7	12	A	
15-cm	Merz visual refractor	+4 29 06	+52 09 20	15	EU	
18-cm	refractor	+4 29 09	+52 09 21	18	EU	
16-cm	Pistor-Martin meridian circle					1861+
34/15-cm	photovisual double refractor					1897+
20-cm	visual telescope					1897+
26.6-cm	Clark-Repsold visual refractor					1885+
16-cm	Schröder visual telescope					
9-cm	Zeiss-Tanschaff zenith telescope					1893+
10-cm	Cooke/Troughton & Simms azimuth instrument					1930+

10.4/10.4-cm	twin Zeiss-Tessar camera					1924+
75-mm	Pistor-Martin transit instrument					1869+
44-mm	Ertel transit instrument					
3-cm	Pistor-Martin universal instrument					1858+
38-mm	Ertel universal instrument					
54-mm	Sartorius universal instrument					
8-cm	Zeiss visual telescope					
45-cm	Kleibrink Newtonian reflector					

Simon Stevin Observatory, Bovenstraat 89, NL-4741 SK Hoeven, Netherlands

32-cm	Maksutov telescope	+4 33 48	+51 34 02.5	9	G	
12.7-cm	equatorial refractor					
35-cm	Celestron Schmidt/Cassegrain telescope					
10-cm	refractor					
40-cm	heliostat					
20-cm	Schmidt/Cassegrain reflector					1980+
15-cm	Maksutov telescope					?-1980
17.8-cm	satellite camera					
50-cm	astrocamera	+4 33 48	+51 34 02.5	9	G	
10-cm	astrocamera	+4 33 48	+51 34 02.5	9	G	
8-cm	cometseeker	+4 33 48	+51 34 02.5	9	G	
7.5-m	radio telescope					05/1974+
4-m	radio telescope					05/1974+

Sonnenborgh Observatory, Zonnenburg 2, NL-3512 NL Utrecht, Netherlands

14.5-cm	solar tower telescope with coelostat	+5 07 45.1	+52 05 09.6	14	A	1936+
26-cm	Merz equatorial refractor	+5 07 45.1	+52 05 09.6	14	A	c.1880+
12-cm	Utzschneider-Fraunhofer equatorial refractor	+5 07 45.1	+52 05 10.2	14	A	?-1986; from Utrecht Univ. Obs.
40-cm	reflector					?-1970; to Stephanion Obs.
8-cm	Troughton & Simms meridian instrument					?-1960

Westerbork Radio Astronomy Observatory, Schattenberg 1, NL-9433 TA Zwiggelte, Netherlands

	14-element synthesis radio telescope	+6 36 15	+52 55 00.9	16	U	1970-1980 as 12-element telescope; 1980+

NEW ZEALAND

Auckland Observatory, Box 24-180, Auckland 6, New Zealand

50-cm	Zeiss Newtonian/Cassegrain reflector	+174 46 39	−36 54 25.7	80	NZ	
15-cm	Zeiss reflector	+174 46 37.9	−36 54 28	80	NZ	
20-cm	reflector	+174 46 37.9	−36 54 28	80	NZ	

Black Birch Station, Carter Observatory, P.O. Box 770, Blenheim, New Zealand

41-cm	Crisp Boller & Chivens Schmidt/Cass. reflector	+173 48 13.04	−41 44 55.9	1396	NZ	06/1978+; from Carter Obs.
10-cm	astrograph					

Carter Observatory, P.O. Box 2909, Wellington 1, New Zealand

41-cm	Crisp Boller & Chivens Schmidt/Cass. reflector	+174 46 00.71	-41 17 09.7	129	NZ	?-06/1978; to Black Birch Station
23-cm	Cooke equatorial photovisual triple refractor	+174 46 01.05	-41 17 09.4	129	NZ	1941+
20-cm	portable Schmidt/Cassegrain reflector #1	+174 46 01.1	-41 17 09.6	127	NZ	
20-cm	portable Schmidt/Cassegrain reflector #2	+174 46 01.1	-41 17 09.6	127	NZ	
89-mm	portable Questar reflector	+174 46 01.1	-41 17 09.6	127	NZ	
15-cm	Cooke refractor	+174 46 00.71	-41 17 09.7	129	NZ	1982+
12.7-cm	refractor	+174 46 03.3	-41 17 10.6	134	NZ	Royal Ast. Soc. of New Zealand tel. (T. King Obs.)
76-mm	portable refractor (5)					1950+

Mount John University Observatory, Mount John University, P.O. Box 56, Lake Tekapo 8770, South Canterbury, New Zealand

61-cm	photometric Cassegrain reflector #1	+170 27 51.70	-43 59 14.7	1027	NZ	1970+; Flower and Cook Obs. telescope
61-cm	Boller & Chivens reflector #2	+170 27 51.80	-43 59 12.5	1025	NZ	1975+; Univ. of Canterbury telescope
50-cm	USAF Baker-Nunn camera	+170 27 50.11	-43 59 20.2	1011	NZ	?-12/1983; satellite tracking sta.; U.S. Air Force instr.
25-cm	astrographic camera	+170 27 52.80	-43 59 14.4	1031	NZ	1965+; Flower and Cook Obs. telescope
10-cm	astrographic camera	+170 27 52.80	-43 59 14.4	1031	NZ	1965+
12.5-cm	astrographic camera	+170 27 52.80	-43 59 14.4	1031	NZ	1965+
1-m	Dall-Kirkham reflector	+170 27 50.06	-43 59 20.1	1011	NZ	1986+; Univ. of Canterbury telescope
41-mm	Damon sky patrol camera #1	+170 27 54.45	-43 59 14.4	1030	NZ	05/1981+; from Oak Ridge Obs.
41-mm	Damon sky patrol camera #2	+170 27 54.45	-43 59 14.4	1030	NZ	05/1981+; from Oak Ridge Obs.
10-cm	Bamberg patrol camera (4)	+170 27 53.60	-43 59 14.3	1033	NZ	1965+; 4 cameras on one mount

NORWAY

EISCAT Tromsø Station, European Incoherent Scatter Facility, Ramfjordmoen, N-9027 Ramfjordbotn, Norway

40x120-m	VHF antenna	+19 13 13.23	+69 35 11.9	85	EU
32-m	UHF dish antenna	+19 13 38.75	+69 35 11.2	87	EU

Skibotn Astronomical Observatory, University of Tromsø, N-9048 Skibotn, Norway

50.8-cm	Ritchey-Chrétien reflector	+20 21 53.04	+69 20 53.0	157	EU	1979+
21-cm	telescope					Former

PHILIPPINES

Manila Observatory, P.O. Box 1231, Manila 2800, Philippines

30-cm	spectroheliograph	+121 04 34.50	+14 38 10.4	58	G
25-cm	automated Razdow solar refractor	+121 04 34.50	+14 38 10.4	58	G
10-cm	refractor	+121 04 34.50	+14 38 10.4	58	G
	Cauchoix lens	+121 04 34.50	+14 38 10.4	58	G
	solar radiometers	+121 04 34.50	+14 38 10.4	58	G
	24-48 MHz spectrometer	+121 04 34.50	+14 38 10.4	58	G
2.44-m	paraboloid				
3.0-m	paraboloid				
	2-element interferometer				

Pagasa Astronomical Observatory, National Geophysical & Astronomical Service, Asia Trust Building, 1424 Quezon Boulevard, Quezon City, Philippines

30-cm	Cassegrain reflector	+121 04 16.2	+14 39 09.6	70	G	1984-1988; former
15-cm	refractor	+121 04 14.2	+14 39 09.6	70	G	
	Wild T-4 transit instrument					?-1979
15-cm	reflector #1					Former
15-cm	reflector #2					Former
20-cm	Schmidt camera	+121 04 14.2	+14 39 09.6	70	G	
	DKM-3A theodolite					1979+
75-mm	refractor #1					
75-mm	refractor #2					
12-cm	apogee telescope					

POLAND

Astronomical Latitude Observatory, Polish Academy of Sciences, Borowiec, PL-62-035 Kornik, Poland

13-cm	Zeiss visual zenith tube	+17 04 30	+52 16 38.2	80	A	
10-cm	Zeiss visual transit telescope	+17 04 36.56	+52 16 38	80	A	
10-cm	Danjon astrolabe	+17 04 36.5	+52 16 38.5	80	A	1983+
11-cm	Poznan zenith telescope					
50-cm	Zeiss satellite camera					
	satellite laser ranging (SLR) station					1988+
	Doppler NNSS receiver					1983+

Bialkow Observing Station, Wroclaw University, Ul. Kopernika 11, PL-51-622 Wroclaw, Poland

60-cm	Zeiss reflector	+16 39 35.9	+51 28 32	140	A	1975+
53-cm	coronagraph	+16 39 35.9	+51 28 32	140	A	1981+
15-cm	solar horizontal telescope	+16 39 35.9	+51 28 32	140	A	1987+
25-cm	refractor	+16 39 35.9	+51 28 32	140	A	c.1925-1975; former

Fort Skala Station, Jagellonian University Astronomical Observatory, Ul. Orla 171, PL-30-244 Cracow, Poland

50-cm	Cassegrain reflector	+19 49 34.6	+50 03 16.1	314	A	
35-cm	Maksutov Cassegrain reflector	+19 49 40.3	+50 03 15.1	311	A	
81-mm	Plössl refractor	+19 49 30	+50 03 16	316	EU	
20.3-cm	refractor	+19 49 34.65	+50 03 16.1	314	A	
10.9-cm	refractor	+19 49 34.65	+50 03 16.1	314	A	
11-cm	refractor	+19 49 40.35	+50 03 15.1	311	A	
10.8-cm	refractor	+19 49 37.35	+50 03 15.5	318	A	
20.3-cm	refractor	+19 49 35.55	+50 03 14.6	314	A	
13.4-cm	refractor	+19 49 35.55	+50 03 14.6	314	A	
20-cm	portable refractor	+19 49 38.70	+50 03 15.1	316	A	
15-cm	Maksutov Cassegrain telescope	+19 49 40.35	+50 03 15.5	310	A	
15-m	radio telescope	+19 49 45	+50 03 12	304	A	
7-m	radio telescope	+19 49 45	+50 03 12	304	A	

Jagellonian University Astronomical Observatory, Jagellonian University, Ul. Orla 171, PL-30-244 Cracow, Poland

20.3-cm	Harvard refractor	+19 57 35.1	+50 03 52.2	225	A	
11.6-cm	portable Merz refractor	+19 57 34.95	+50 03 51.8	221	A	
30.5-cm	Kordylewski reflector	+19 57 25	+50 03 52	221	EU	
14.8-cm	Merz cometseeker	+19 57 35.1	+50 03 52.2	225	A	
8-cm	Zeiss cometseeker	+19 57 27	+50 03 52	225	EU	
	Binar Somet telescope	+19 57 27	+50 03 52	225	EU	
83-mm	transit circle	+19 57 25	+50 03 52	221	EU	
11-cm	Merz refractor	+19 57 35.1	+50 03 52.2	225	A	
98-mm	Plössl refractor	+19 57 35.1	+50 03 52.2	225	A	
14-cm	equatorial telescope	+19 57 35.1	+50 03 52.2	225	A	
12-cm	equatorial telescope	+19 57 35.1	+50 03 52.2	225	A	
5-cm	equatorial telescope	+19 57 35.1	+50 03 52.2	225	A	
7-cm	Dollond horizontal telescope	+19 57 35.1	+50 03 52.2	225	A	
10.9-cm	Zeiss-Heyde refractor	+19 57 27	+50 03 52	225	EU	
8-cm	Plössl refractor	+19 57 25	+50 03 52	221	EU	
13.4-cm	Steinheil cometseeker	+19 57 25	+50 03 52	225	EU	
83-mm	Utzschneider-Fraunhofer horizontal telescope	+19 57 27	+50 03 52	225	EU	
76-mm	Utzschneider-Fraunhofer cometseeker	+19 57 35.4	+50 03 52.3	225	A	
20.3-cm	Grubb-Merz refractor	+19 57 34.5	+50 03 51.9	225	A	
11.6-cm	Ertel equatorial refractor					1842-?
D=1.8-m	Troughton & Simms mural circle					1832-?
	Troughton & Simms transit instrument					1828-?
84-mm	Utzschneider refractor					1825+
	mural quadrant					c.1818-?
	Utzschneider equatorial circle					c.1818-?
D=61-cm	Utzschneider meridian circle					1791-1829
R=91-cm	Canivet quadrant					1783-?

Mount Suhora Observatory, Cracow Pedagogical University, Department of Physics, Ul. Podchorazych 2, PL-30-084 Cracow, Poland

60-cm	Zeiss Cassegrain reflector	+20 04 00	+49 34 12	1000	U	1987+

Piwnice Astronomical Observatory, Nicolaus Copernicus University, Sienkiewicza 30, Ul. Chopina 12/18, PL-87-100 Toruń, Poland

90/60-cm	Schmidt/Cassegrain reflector	+18 33 22	+53 05 44	100	A	
35-cm	Schmidt camera					
20-cm	Draper astrographic refractor					From Harvard College Obs.
25-cm	reflector					
20-cm	Zeiss refractor					
15-m	radio telescope					
1.8-m	solar radio telescope					
4x8-m	cylindrical paraboloid #1					
4x8-m	cylindrical paraboloid #2					
20-m	log-periodic aerial #1					
20-m	log-periodic aerial #2					
6x6x80-m	2-corner reflector with 8 dipoles					
	2-corner reflector with 8 wideband dipoles					
B=25-m	interferometer					Two 2.5x2.5-m antennas
	interferometer					Two 100-m antennas and a 200-m antenna

Poznań University Astronomical Observatory, A. Mickiewicza University-Poznań, Sloneczna 36, PL-60-286 Poznań, Poland

	transit instrument	+16 52 44.49	+52 23 50.5	85	A	
14-cm	satellite camera	+16 52 44.1	+52 23 50.9	85	U	
20-cm	Zeiss refractor	+16 52 42	+52 23 48	85	EU	1929+
10.8-cm	Reinfelder-Hertel horizontal telescope	+16 52 42	+52 23 48	85	EU	
2-cm	theodolite	+16 52 41.7	+52 23 54.3	85	A	
10-cm	Utzschneider telescope	+16 52 42	+52 23 48	85	EU	
30-cm	astrograph	+16 52 42.0	+52 23 48	85	EU	1986+
65-cm	telescope	+16 52 42.0	+52 23 48	85	A	1989+
17-cm	Zeiss Coudé reflector	+16 52 42.0	+52 23 48	85	A	1978+
12-cm	double astrograph	+16 52 42.0	+52 23 48	85	A	1978+
16.2-cm	Steinheil equatorial refractor	+16 52 37	+52 23 45	85	EU	
11-cm	Zeiss refractor	+16 52 37	+52 23 45	85	EU	
6-cm	Zeiss refractor	+16 52 41.7	+52 23 54.3	85	U	
95-mm	Merz horizontal telescope	+16 52 39	+52 23 47.7	85	U	
81-mm	Ertel telescope	+16 52 41.7	+52 23 54.3	85	U	
10-cm	binoculars	+16 52 42	+52 23 48	85	EU	
	satellite laser instruments	+16 52 42.0	+52 23 48	85	G	1988+

Warsaw University Astronomical Observatory, Warsaw University, Al. Ujazdowskie 4, PL-00-478 Warsaw, Poland

60-cm	Zeiss reflector	+21 25 12	+52 05 23	138	A	1973+
25-cm	Grubb visual refractor					
14-cm	astrographic camera					

Wroclaw University Astronomical Observatory, Wroclaw University, Ul. Kopernika 11, PL-51-622 Wroclaw, Poland

16-cm	Repsold transit circle	+17 05 18.3	+51 06 42.1	115	A	c.1939-1980
20.3-cm	Clark-Repsold refractor	+17 05 18.3	+51 06 42.1	125	A	c.1939+
13-cm	coronagraph	+17 05 18.3	+51 06 42.1	115	A	1966+
10-cm	Fraunhofer refractor	+17 05 17.8	+51 06 42.0	117	A	Destroyed
16-cm	Steinheil-Repsold vertical circle	+17 05 18.3	+51 06 42.1	115	A	c.1939-1954
	Hildebrandt universal telescope	+17 05 17.8	+51 06 42.0	117	A	Destroyed
55-mm	Merz telescope	+17 05 17.8	+51 06 42.0	117	A	Destroyed
45-mm	ground telescope	+17 05 17.8	+51 06 42.0	117	A	Destroyed
13-cm	Reinfelder-Hertel cometseeker	+17 05 17.8	+51 06 42.0	117	A	Destroyed
50-cm	Schmidt reflector	+17 05 17.8	+51 06 42.0	117	A	Destroyed
7-cm	Dollond telescope	+17 05 17.8	+51 06 40.3	117	A	Destroyed
6-cm	Fraunhofer telescope	+17 05 17.8	+51 06 42.0	117	A	Destroyed
6-cm	Lincoln telescope	+17 05 17.8	+51 06 42.0	117	A	Destroyed
8-cm	Dollond telescope	+17 05 17.8	+51 06 42.0	117	A	Destroyed
13-cm	portable Ikon-Epikar telescope	+17 05 18.1	+51 06 40.2	124	A	Destroyed
11-cm	Steinheil-Gordon refractor	+17 05 18.3	+51 06 42.1	115	A	c.1939+
18-cm	Grubb-Parsons astrographic refractor	+17 05 18.3	+51 06 42.1	125	A	

PORTUGAL

Coimbra Astronomical Observatory, Coimbra University, Caixa Postal 147, P-3002 Coimbra Codex, Portugal

	No instrument given	-8 25 46.5	+40 12 24.5	99	U	
17-cm	meridian circle					
13-cm	equatorial telescope					
7-cm	universal instrument					
40-cm	coelostat					
25-cm	spectroheliograph					
13.2-cm	Troughton equatorial refractor					1788-?
R=1.0-m	Troughton quadrant					1798-?
66-mm	Dollond transit instrument					
15-cm	stellar spectrograph					

Lisbon Astronomical Observatory, Tapada da Ajuda, P-1300 Lisbon, Portugal

38.2-cm	Merz-Repsold equatorial refractor	-9 11 09.7	+38 42 42.4	111	EU	1864+
11.7-cm	Merz-Repsold refractor	-9 11 09.1	+38 42 41.0	95	EU	1870+
13.5-cm	Repsold meridian circle	-9 11 11.2	+38 42 30.5	95	A	1861+
16-cm	Repsold transit instrument	-9 11 10.2	+38 42 31.0	95	A	
7-cm	portable Repsold transit instrument	-9 11 09.15	+38 42 30.5	95	A	1866+
97-mm	Utzschneider-Fraunhofer refractor	-9 11 09.6	+38 42 41.8	95	EU	Former
83-mm	Merz refractor	-9 11 09.9	+38 42 41.8	95	EU	Former
31.8-cm	Meade Newtonian reflector	-9 11 10.35	+38 42 41.0	96	EU	
20.3-cm	Schmidt/Cassegrain catadioptric reflector	-9 11 09.90	+38 42 41.8	95	EU	
25.4-cm	Schmidt/Cassegrain catadioptric reflector	-9 11 09.60	+38 42 41.8	95	EU	

Prof. Manuel de Barros Observatory, Porto University, Monte da Virgem, P-4400 Vila Nova de Gaia, Portugal

	mirror transit circle	-8 35 17.0	+41 06 28.9	232	EU	1957+
	transit instrument	-8 35 15.4	+41 06 27.0	232	EU	1954+
	equatorial refractor	-8 35 14.4	+41 06 28.5	238	EU	1973+
	satellite camera	-8 35 16.0	+41 06 28.3	232	EU	1971+
10-cm	Maksutov telescope					
10-cm	refractor	-8 35 14.4	+41 06 28.5	234	EU	1973+
7-cm	refractor	-8 35 14.4	+41 06 21.0	238	U	
76-cm	reflector	-8 35 16.5	+41 06 29.9	232	EU	1980+
15-cm	refractor					
6-cm	refractor					
5-m	radio telescope	-8 13 48	+41 00 00	300	EU	1989+; Nespereire station

PUERTO RICO

Arecibo Observatory, National Astronomy and Ionosphere Center, P.O. Box 995, Arecibo, Puerto Rico 00613

305-m	fixed spherical reflecting antenna	-66 45 11.1	+18 20 36.6	496	NA	1963+
30.5-m	interferometric equatorial parabolic antenna	-66 43 44	+18 26 11	60	NA	1977+

ROMANIA

Bucharest Astronomical Observatory, Center for Astronomy and Space Sciences, Cuţitul de Argint 5, R-75212 Bucharest, Romania

10-cm Zeiss transit telescope	+26 05 46.72	+44 24 50	81	A 1957+
19-cm Gautier-Prin meridian circle	+26 05 48	+44 24 50	81	A 1924+
75-cm AFU satellite camera	+26 05 48	+44 24 50	81	S 1970+
38/38-cm Merz-Prin twin refractor	+26 05 48.0	+44 24 50	81	A 1912+
50-cm Cassegrain reflector	+26 05 48.0	+44 24 50	81	A 1965+
13-cm Zeiss refractor	+26 05 48.0	+44 24 50	81	A 1957+
30-cm Jensch coelostat	+26 05 48.0	+44 24 50	81	A 1989+

Cluj-Napoca Astronomical Observatory, Calea Ciresilor 19, R-34000 Cluj-Napoca, Romania

50-cm Newtonian reflector	+23 35 52	+46 42 48	750	A c.1939+
20-cm Zeiss double refractor	+23 35 52	+46 42 48	750	A c.1939+
20-cm Zeiss-Vierlinger refractor	+23 35 52	+46 42 48	750	A
44-cm transit instrument				Former

RUSSIA

Engelhardt Astronomical Observatory, Observatoria Station, 422526 Kazan, Russia

14-cm meridian circle	+48 48 54.15	+55 50 20.3	98	A 1905+
38/52-cm Schmidt telescope	+48 48 51.93	+55 50 18.4	98	A 1940-1963; to Kazakhstan station
16.2-cm Merz cometseeker	+48 48 53.83	+55 50 18.4	98	A 1932+
10.6-cm heliometer	+48 48 49.24	+55 50 19.2	98	A 1908+
15-cm Zeiss astrograph	+48 48 52.42	+55 50 18.9	98	A 1957-1970
95-mm zenith telescope	+48 48 55.59	+55 50 18.2	98	A 1945+
30.6-cm Grubb refractor	+48 48 52.23	+55 50 20.3	98	A 1903-1965
18-cm zenith telescope	+48 48 55.59	+55 50 20.3	98	A 1957+
98-mm Fraunhofer telescope	+48 48 56.1	+55 50 20.2	98	A
68-mm Zeiss telescope	+48 48 56.1	+55 50 20.2	98	A
95-mm Merz cometseeker	+48 48 56.1	+55 50 20.2	98	A
48-cm Cassegrain reflector	+48 48 53.69	+55 50 19.2	98	A 1965+
40-cm Grubb refractor	+48 48 52.23	+55 50 20.3	98	A 1965+
35/51-cm Maksutov telescope	+48 48 51.93	+55 50 18.4	98	A 1963+
12-cm Zeiss astrograph	+48 48 52.42	+55 50 18.9	98	A 1929-1957
12-cm Heide astrograph	+48 48 52.48	+55 50 19.0	98	A 1914-1957
20-cm Heide astrograph	+48 48 53.57	+55 50 18.4	98	A 1957+
20-cm AFR-18 astrograph	+48 48 52.42	+55 50 18.9	98	A 1988+
20-cm horizontal telescope	+48 48 51.12	+55 50 19.7	98	A 1949+
38-cm Schmidt telescope	+76 59 30	+43 04 10	3000	U 1963-1977; former; Kazakhstan station
38-cm Schmidt telescope	+41 26 36	+43 39 10	2040	A 1977-1983; former; Caucasus mountain station
40-cm horizontal telescope	+41 26 36	+43 39 10	2040	A 1989+; Caucasus mountain station
50-cm horizontal telescope	+41 26 36	+43 39 10	2040	A 1989+; Caucasus mountain station
38-cm Schmidt telescope	+107 03 00	+47 51 56	1620	U 1986+; Mongolia station

Irkutsk Astronomical Observatory, Irkutsk State University, Sovietskaya 119A, 664009 Irkutsk, Russia

	zenith telescope	+104 20 42	+52 16 43.8	468	A	
	broken-transit telescope	+104 20 42	+52 16 44.7	468	A	
8-cm	Bush refractor	+104 20 40.6	+52 16 45	468	A	
10-cm	portable equatorial telescope	+104 20 40.6	+52 16 45	468	A	
	meridian circle	+104 20 40.6	+52 16 44.4	468	A	
	Zeiss binoculars	+104 20 36	+52 16 44.0	468	A	

Kaliningrad University Observatory, Kaliningrad State University, Ul. Universitetskaya 23, Kaliningrad, Russia

97-mm	Reichenbach-Ertel meridian circle	+20 29 44.5	+54 42 50.5	24	A	c.1819-?
79-mm	equatorial cometseeker	+20 29 44.5	+54 42 50.5	24	A	1813-?
15-cm	Fraunhofer-Utzschneider heliometer	+20 29 44.5	+54 42 50.5	24	A	1829-?
33-cm	refractor	+20 29 43.6	+54 42 50.5	34	A	
10-cm	Plössl telescope	+20 29 43.6	+54 42 50.5	34	A	
D=76-cm	Cary vertical circle					1813-1819; O=5-cm
69-mm	Dollond transit instrument					1813-1821
15-cm	Repsold meridian circle					1841-?
61-mm	Fraunhofer refractor					1851-?

Kazan University Observatory, Kazan State University, Ul. Lenina 18, 420008 Kazan, Russia

81-mm	Dollond equatorial telescope	+49 07 15.4	+55 47 23.9	79	A	c.1935+
24.3-cm	Fraunhofer refractor	+49 07 15.4	+55 47 23.9	79	A	c.1935+
81-mm	Pariser cometseeker	+49 07 15.4	+55 47 23.9	79	A	c.1935+
10.8-cm	Kovalsky tube	+49 07 15.4	+55 47 23.9	79	A	c.1935+
66-mm	Dollond telescope	+49 07 15.4	+55 47 23.9	79	A	c.1935+
16.2-cm	cometseeker	+49 07 15.4	+55 47 23.9	79	A	c.1935+
68-mm	Dollond telescope	+49 07 15.4	+55 47 23.9	79	A	c.1935+
68-mm	Steinheil telescope	+49 07 15.4	+55 47 23.9	79	A	c.1935+
	Brauer transit instrument					c.1935+
	Repsold vertical circle					c.1935+
10-cm	cometseeker					c.1935+
81-mm	Steinheil-Gauss equatorial telescope	+49 07 15.4	+55 47 23.9	79	A	c.1935+
25-cm	Merz & Mahler equatorial refractor					1838-?
	Ertel transit instrument					c.1839-?

Kislovodsk Solar Station, Pulkovo Observatory, P.O. Box 1, 357741 Kislovodsk, Russia

53-cm	Lyot coronagraph	+42 31 45	+43 44	2130	U	
20-cm	coronagraph					
10-cm	heliograph					

Pulkovo Observatory, Russian Academy of Sciences, 65 Pulkovo, 196140 St. Petersburg, Russia

40-cm	Merz & Mahler refractor	+30 19 37	+59 46 21	75	EU	1839-1941, 1954+
33/25-cm	photovisual astrograph	+30 19 37	+59 46 21	75	EU	
10-cm	Ponomarev double astrograph	+30 19 37	+59 46 21	75	EU	
	Pavlov photoelectric transit instrument #1	+30 19 38.49	+59 46 00	----	A	
	Pavlov photoelectric transit instrument #2	+30 19 38.49	+59 46 00	----	A	
14-cm	Freiberg-Kondratjev zenith telescope	+30 15	+59 46 15.6	----	A	1947+
15-cm	Ertel-Merz meridian instrument					1839-?

15-cm	Ertel-Merz vertical circle					
14.8-cm	Repsold meridian circle					1839-?
37.9-cm	Repsold-Merz equatorial telescope					
15.5-cm	Repsold transit instrument					
	Prokofieva coronagraph					
	Zverev photographic vertical circle					
17-cm	Plössl refractor					
1.5-m	Schmidt camera					
76.2-cm	Repsold-Clark equatorial telescope					1885-c.1945; destroyed
33-cm	Henry equatorial photographic telescope					
12-cm	Zeiss astrograph					
17-cm	Bredikhine astrograph					1948+
65-cm	refractor					
10-cm	meridian circle					
20-cm	Mikhailov polar tube					1951+
19-cm	Merz & Mahler heliometer					1839-?
D=91-cm	Ertel vertical circle					1839-?; O=15-cm
	Herschel reflector					1839-?
76-mm	Ertel transit instrument					1839-?
94-mm	portable Plössl equatorial refractor					1842-?
50-cm	Ponomarev-Maksutov horizontal solar telescope					
97-mm	portable Merz & Mahler cometseeker					
L=100-m	fan-type radio antenna	+30 19 26.5	+59 46 05.5	70	U	
10x2-m	cylindrical paraboloid #1					
10x2-m	cylindrical paraboloid #2					
16-m	paraboloid					
120x3-m	parabolic sector					
12-m	transit paraboloid #1					
12-m	transit paraboloid #2					
5.5-m	radio dish					
4.9-m	radio dish					
4-m	radio dish					

St. Petersburg University Observatory, A.A. Zhdanov State University, Bibliotechnaja Pl. 2, Petrodvorets, 198904 St. Petersburg, Russia

	transit instrument	+30 17 40.6	+59 56 32.2	3	U	
16-cm	Reinfelder-Hertel refractor	+30 17 39	+59 56 34	3	EU	
22-cm	refractor					
20-cm	meniscus telescope					
24-cm	astrograph					
20/57-cm	solar telescope					
	reflector #1					c.1738-1747; destroyed
	reflector #2					c.1738-1747; destroyed
	reflector #3					c.1738-1747; destroyed
	reflector #4					c.1738-1747; destroyed
	Campani refractor #1					c.1738-1747; destroyed
	Campani refractor #2					c.1738-1747; destroyed
	mural quadrant					c.1738-1747; destroyed
	Bird transit instrument					1751-?

R=2.44-m	Bird mural quadrant					1752-?
	Ramsden transit instrument					1803-1807
D=1.52-m	Troughton meridian circle					1807-?
	Herschel reflector					1807-?
D=46-cm	Troughton repeating circle					1807-?

Sayan Mountains Radiophysical Observatory, Institute of Solar-Terrestrial Physics, Ul. Lermontov 126, P.O. Box 4026, 664033 Irkutsk, Russia

	Siberian Solar Radio Telescope (SSRT)	+102 12 30	+51 45 27	832	U	1985+; 2 arrays of 128x128 2.5-m parabolic antennas

Special Astrophysical Observatory, Nizhnij Arkhyz, Zelenchukskaya, 357147 Stavropolskij Kraj, Russia

6-m	Large Altazimuth Telescope (BTA)	+41 26 30	+43 39 12	2100	A	1976+
1-m	Zeiss reflector					
0.6-m	Zeiss reflector					
600-m	RATAN radio telescope	+41 35 25	+43 49 32	973	A	1976+

Sternberg State Astronomical Institute, Moscow University, Universitetskij Prospekt 13, 119899 Moscow, Russia

38/38-cm	photovisual twin astrograph	+37 32 39.9	+55 42 00.0	195	A	
18-cm	zenith tube	+37 32 39.9	+55 42 00.0	195	A	
18-cm	refractor	+37 32 39.9	+55 42 00.0	195	A	
15-cm	Repsold meridian circle	+37 32 40.23	+55 42 00	----	A	1846-1952
51/71-cm	meniscus telescope					
16-cm	Zeiss equatorial camera					
30-cm	reflector					
12-cm	refractor					
25-cm	telescope					
	Dollond transit instrument					1832-?
D=38-cm	Troughton altazimuth instrument					1832-?

Tomsk University Observatory, Tomsk State University, 3 Timiryazev Avenue, P.O. Box 1106, 634010 Tomsk, Russia

14-cm	refractor	+84 56 45	+56 28 07.4	130	A	
13-cm	refractor	+84 56 45	+56 28 07.4	130	A	
12-cm	refractor	+84 56 45	+56 28 07.4	130	A	
9-cm	Bamberg refractor	+84 56 45	+56 28 07.4	130	A	
7-cm	Bamberg telescope	+84 56 45	+56 28 07.4	130	A	
8-cm	refractor	+84 56 45	+56 28 07.4	130	A	
9-cm	Zeiss refractor	+84 57 58	+56 28 09	130	A	
7-cm	refractor	+84 56 45	+56 28 07.4	130	A	
	Maksutov telescope	+84 56 45	+56 28 07.4	130	A	
7-cm	binoculars	+84 56 45	+56 28 07.4	130	A	

SLOVAKIA

Lomnický Štít Coronal Observatory, Slovak Academy of Sciences, 059 60 Tatranská Lomnica, Slovakia

20-cm	coronagraph	+20 13 12.3	+49 11 45.6	2632	G	1962+
60-cm	Cassegrain/Newtonian reflector	+20 13 12.3	+49 11 45.6	2632	G	Former
12-cm	Maksutov camera					Former

12-cm	astrograph					Former
25-cm	cometseeker					Former
10-cm	refractor					Former
20-cm	coronagraph					1971+
13-cm	refractor					1970+

Skalnaté Pleso Observatory, Slovak Academy of Sciences, 059 60 Tatranská Lomnica, Slovakia

60-cm	Zeiss equatorial Cassegrain/Newtonian reflector	+20 14 41.5	+49 11 20.0	1783	A	
30-cm	Zeiss astrographic refractor	+20 14 40.5	+49 11 20.0	1783	A	
20-cm	Zeiss coronagraphic refractor	+20 14 41.5	+49 11 20.0	1783	A	
13-cm	Zeiss refractor	+20 14 41.5	+49 11 20.0	1783	A	
10-cm	Somet binoculars	+20 14 41.5	+49 11 20.0	1783	A	
10-cm	cometseeker					
21-cm	Schmidt telescope					
12-cm	Schmidt telescope					
	meteor camera					

Slovak Technical University Observatory, Slovak Technical University, Ul. Radlinskeho C.11, 813 68 Bratislava, Slovakia

10-cm	transit instrument	+17 07 11.47	+48 09 18	171	A	1958+
10-cm	circumzenithal telescope	+17 07 11.44	+48 09 18.1	171	A	1986+

SOUTH AFRICA, REPUBLIC OF

Boyden Observatory, University of the Orange Free State, P.O. Box 339, Bloemfontein 9300, Transvaal, Republic of South Africa

1.52-m	Rockefeller Cassegrain reflector	+26 24 18	–29 02 18	1387	CP	1933+
81/91-cm	ADH Perkin-Elmer Baker-Schmidt reflector	+26 24 18	–29 02 18	1387	CP	1950-1979; former; Armagh/Dunsink/Harvard Obs. tel.
41-cm	Nishimura Cassegrain reflector	+26 24 18	–29 02 18	1387	CP	1966+
33-cm	Boyden Clark photographic refractor	+26 24 18	–29 02 18	1387	CP	1930+
25-cm	Metcalf photographic triple refractor	+26 24 18	–29 02 18	1387	CP	1927+
76-mm	Ross-Fecker camera	+26 24 18	–29 02 18	1387	CP	1933+
61-cm	Bruce Clark double astrographic refractor	+26 24 18	–29 02 18	1387	CP	1933-1950
20-cm	Bache double photographic refractor					1933-c.1963
36-cm	Hamburg Schmidt reflector					c.1964-1972
50-cm	Cassegrain photometric reflector					c.1966-1971
40-cm	Cassegrain reflector					c.1965-1971; Remeis Obs. telescope
20-cm	Brashear photographic lens					1938-1944
38-mm	Cooke photographic lens					1933+
76-cm	Perkin-Zeiss photographic telescope					1952+
41-mm	Damon camera					1970-1973; former

Hartebeeshoek Radio Astronomy Observatory, P.O. Box 443, Krugersdorp 1740, Transvaal, Republic of South Africa

26-m	paraboloid	+27 41 08.53	–25 53 21.1	1391	CP	1961+
12-m	steerable parabolic antenna					1961+
	minitrack interferometer system					1961-1974; NASA instrument

South African Astronomical Observatory, P.O. Box 9, Observatory 7935, Cape Province, Republic of South Africa

61-cm	McClean Victoria Grubb photographic refractor	+18 28 40.9	−33 56 06.5	18	CP	1898+
46-cm	Cox-Hargreaves/Thomson reflector	+18 28 42.1	−33 56 01.1	15	CP	1957+
33-cm	astrographic refractor	+18 28 42.9	−33 56 07.5	15	CP	1891+
15-cm	equatorial visual refractor	+18 28 42.7	−33 56 06.8	12	CP	1886+
	Askania Kine-theodolite	+18 28 43.1	−33 56 06.7	15	CP	1967-01/1981; from Royal Greenwich Obs.
15-cm	Gill Troughton & Simms transit circle					1905-1973
12.7-cm	automatic Lyot heliograph					03/1958-1972
1.01-m	Elizabeth Grubb-Parsons Cassegrain reflector	+18 28 40.5	−33 56 00.7	20	A	1963-1972; to Sutherland Station
	De La Rue photoheliograph					1910-01/1977

Southern Station, Leiden Observatory, P.O. Box 13, Broederstroom 0240, Transvaal, Republic of South Africa

90-cm	Cassegrain reflector	+27 52 33.2	−25 46 22.2	1220	A	1957-1978; to European Southern Obs.
41/41-cm	Rockefeller twin astrograph	+27 52 34.5	−25 46 22.7	1220	A	1957-?
50-cm	Calypso Cassegrain reflector	+27 52 33.8	−25 46 23.5	1220	A	
25-cm	Franklin-Adams photographic refractor					1954+; from Republic Obs.

Sutherland Observing Station, South African Astronomical Observatory, P.O. Box 9, Observatory 7935, Cape Province, Republic of South Africa

1.88-m	Grubb-Parsons Newtonian reflector	+20 48 44.3	−32 22 43.4	1771	CP	1976+; from Radcliffe Obs.
1.01-m	Elizabeth Grubb-Parsons Cassegrain reflector	+20 48 38.52	−32 22 46.3	1768	CP	1972+; from South African Ast. Obs.
50-cm	Leiden Boller & Chivens Cassegrain reflector	+20 48 42.7	−32 22 46.8	1764	CP	1972+; from Republic Obs.
75-cm	Cassegrain reflector	+20 48 40.6	−32 22 46.5	1766	CP	1974+; comounted with 3 refractors
25.5-cm	refractor	+20 48 40.6	−32 22 46.5	1766	CP	1974+; comounted with 75-cm reflector
20.3-cm	refractor	+20 48 40.6	−32 22 46.5	1766	CP	1974+; comounted with 75-cm reflector
12.7-cm	photographic refractor	+20 48 40.6	−32 22 46.5	1766	CP	1974+; comounted with 75-cm reflector

SPAIN

Deep Space Station-Cebreros, American Embassy, Madrid Space Station (DSS-62), NASA/INTA, APO New York, New York 09285

26-m	parabolic S-band antenna	−4 21 59.43	+40 27 15.3	789	EU	12/1966+
64-m	radio telescope	−4 14 50.87	+40 26 03.9	796	EU	
34-m	antenna					1987+

Deep Space Station-Robledo, Jet Propulsion Laboratory, 4800 Oak Grove Drive, Pasadena, California 91109

26-m	paraboloid	−4 14 51.72	+40 25 47.7	796	EU	1965-1980; upgraded to 34-m
34-m	paraboloid	−4 14 51.72	+40 25 47.7	796	EU	1980+
26-m	unified S-band antenna	−4 10 01.87	+40 27 23.9	785	EU	
64-m	parabolic Cassegrain antenna	−4 14 48.07	+40 25 56.6	812	EU	09/1973-1987; upgraded to 70-m
70-m	parabolic Cassegrain antenna	−4 14 48.07	+40 25 56.6	812	EU	1987+
34-m	radio antenna	−4 15 00.35	+40 25 42.1	782	EU	1987+
26-m	radio antenna	−4 15 00.34	+40 25 52.2	798	EU	1965+

Ebro Observatory, E-43520 Roquetas (Tarragona), Spain

2.4-m	equatorial paraboloid	+0 29 33	+40 49 13.5	50	G	
6-m	radio telescope					Inactive

German Spanish Astronomy Center, Jesús Durbán Remón 2, Apartado Correos 511, E-04080 Almeria, Spain

1.52-m	reflector	−2 32 10	+37 13 45	2168	U	1977+; Spanish telescope
3.5-m	Zeiss Ritchey-Chrétien reflector	−2 32 42	+37 13 18	2168	U	1984+; German telescope
0.8/1.2-m	Zeiss Schmidt equatorial reflector	−2 32	+37 13	2168	U	1980+; from Hamburg Obs.
1.23-m	Zeiss Ritchey-Chrétien reflector					1975+; German telescope
2.2-m	Zeiss Ritchey-Chrétien reflector					1978+; German telescope

Millimeter Radio Astronomy Institute, Avenida Divina Pastora 7, Núcleo Central, E-18012 Granada, Spain

30-m	radio telescope	−3 23 58.1	+37 04 05.6	2870	G	09/1985+; French/German telescope

National Astronomical Observatory, Calle de Alfonso XII 3, E-28014 Madrid, Spain

40-cm	Grubb equatorial refractor	−3 41 07.65	+40 24 35.4	670	EU	1921+
27-cm	Merz refractor	−3 41 07.65	+40 24 35.4	670	EU	1857+
20-cm	Grubb equatorial photographic refractor	−3 41 07.2	+40 24 32.4	660	EU	1900+
15-cm	Zeiss astrograph					1915+
16-cm	Repsold meridian circle	−3 41 16.5	+40 24 30.0	660	U	1853+
	Prin transit instrument					1925-1947
13-cm	Steinheil equatorial telescope					1860-1945
58-mm	Bird transit instrument					c.1790-?
76-mm	Mégnié transit instrument					c.1790-c.1816
16.5-cm	Dollond transit instrument					1790-c.1816
61-cm	Herschel reflector					1804-1808; destroyed
20-cm	Herschel reflector					1790+
23-cm	Herschel reflector					1797+

Naval Observatory, Cecilio Pujazon s/n, E-11110 San Fernando, Spain

10-cm	Danjon astrolabe	−6 12 13.11	+36 28 01.4	27	PD	
18-cm	Grubb-Parsons meridian circle	−6 12 19.45	+36 27 42.1	30	A	
33-cm	Carte du Ciel Gautier astrograph	−6 12 17.1	+36 27 57.1	30	PD	
15.2-cm	Cooke equatorial refractor	−6 12 12.6	+36 28 02.1	26	PD	
50/75-cm	SAO Baker-Nunn camera	−6 12 17.91	+36 27 51.4	26	EU	Smithsonian Aph. Obs. instrument
60-cm	CNS Cassegrain telescope	−6 12 18.71	+36 27 50.1	25	EU	French telescope (laser receiver)
15-cm	equatorial refractor	−6 12 19.9	+36 27 41.5	30	G	
10.2-cm	Dublin Grubb refractor	−6 12 19.0	+36 27 41.5	30	G	
66-mm	Dollond refractor	−6 12 19.9	+36 27 41.5	30	G	
20-cm	reflector	−6 12 19.0	+36 27 41.5	30	G	
18-cm	reflector	−6 12 19.0	+36 27 41.5	30	G	
8-cm	Cooke (B) refractor	−6 12 19.0	+36 27 41.5	30	G	
8-cm	Cooke (A) refractor	−6 12 19.9	+36 27 41.5	30	G	
	IGN camera	−6 12 18.33	+36 27 49.8	23	EU	
28-cm	equatorial refractor					
16-cm	astrograph					
7-cm	meridian instrument					
5-cm	meridian instrument					
12.7-cm	Jones transit instrument					1829-?; from Naval Obs., Cadiz

D=1.83-m	Jones mural circle					1834-?; O=10-cm
R=1.83-m	Bird mural quadrant					
R=61-cm	quadrant					
	Dollond equatorial refractor					

Ramon Maria Aller Observatory, Santiago de Compostela University, Apartado 197, Avenida de las Ciencias s/n, Santiago de Compostela (Coruña), Spain

12-cm	Steinheil equatorial refractor	−8 33 33.9	+42 52 31.7	240	A	
55-mm	Askania transit instrument	−8 33 33.4	+42 52 31.7	236	A	
35-cm	Celestron telescope	−8 33 33.7	+42 52 31.7	240	A	
38-mm	Troughton & Simms theodolite					

Roque de los Muchachos Observatory, Astrophys. Inst. of the Canaries, Apartado de Correos 303, E-38700 Santa Cruz (La Palma), Canary Islands

17.8-cm	Carlsberg Grubb-Parsons meridian circle	−17 52 56.70	+28 45 36.0	2326	G2	05/1984+; Danish/UK/Spanish telescope
45-cm	Utrecht open telescope					1978-?; former; Dutch telescope
50-cm	solar tower vacuum telescope					1982+; Swedish telescope
60-cm	photometric Cassegrain reflector	−17 52 06	+28 45 10	2360	U	1982+; Swedish telescope
4.22-m	Herschel Grubb-Parsons Cassegrain reflector	−17 52 53.9	+28 45 38.3	2332	G2	1987+; UK/Dutch telescope
2.54-m	Isaac Newton Grubb-Parsons Cass. equat. refl. (INT)	−17 52 39.5	+28 45 43.4	2336	G2	02/1984+; UK/Dutch telescope
1.0-m	Kapteyn Grubb-Parsons astrometric reflector	−17 52 41.2	+28 45 40.1	2364	G2	03/1984+; UK/Dutch/Irish telescope
2.56-m	Nordic optical/infrared Cassegrain altaz. telescope	−17 53	+28 45	2382	U	1988+
3.5-m	Galileo Zeiss Ritchey-Chrétien altazimuth reflector	−17 53	+28 46	2400	U	1995+; Italian Telescope
	array of cosmic ray detectors					1988+
	gamma ray telescope					UK/Spanish telescope

Teide Observatory, Astrophysical Institute of the Canaries, Camino de la Hornera s/n, E-38200 La Laguna (Tenerife), Canary Islands

1.55-m	Sanchez infrared telescope	−16 29 45	+28 17 32	2395	U	1972+; Spanish telescope
30-cm	photopolarimeter					1964+; French instrument
50-cm	equatorial photometric telescope					1972+; Belgian telescope
40-cm	Newton solar tower vacuum telescope					1972+; Spanish/German telescope
25-cm	Razdow heliograph					1969+; Spanish telescope
60-cm	Turm solar tower vacuum telescope					1989+; German telescope
45-cm	Gregory/Coudé solar vacuum telescope					1986+; from Locarno Solar Obs.; German telescope
80-cm	telescope					1990+; Spanish telescope
90-cm	THEMIS telescope					1991+; French telescope
2x40-cm	double horn antenna					UK/Spanish telescope
1.00-m	parabolic antenna					1988+; UK/Spanish telescope

Yebes Astronomical Center, National Astronomical Observatory, Apartado 148, E-19080 Guadalajara, Spain

40-cm	Zeiss refractor	−3 06	+40 31 30	914	U	1976+
	Zeiss solar telescope	−3 06	+40 31 30	914	U	1976+
13.7-m	mm-wavelength radio telescope	−3 06	+40 31 30	914	U	1976+

SWEDEN

EISCAT Kiruna Station, European Incoherent Scatter Facility, Box 812, S-981 28 Kiruna, Sweden

32-m	dish antenna	+20 26 06.81	+67 51 38.4	418	EU	

Jävan Station, Lund Observatory, Box 43, Svanegatan 9, S-221 00 Lund, Sweden

61-cm	equatorial Nasmyth/Cassegrain reflector	+13 25 58.6	+55 37 22.8	145	G	
35-cm	Schmidt/Cassegrain reflector	+13 25 57.5	+55 37 22.1	145	G	

Kvistaberg Observatory, Uppsala University, S-197 91 Bro, Sweden

1.0/1.35-m	Schmidt telescope	+17 36 24	+59 30 06	33	U	09/1963+; Uppsala Univ. Obs. telescope
30/38-cm	Schmidt telescope					
41-cm	photoelectric/photometric Cassegrain reflector					09/1971+
12/13-cm	photovisual double refractor					1920+

Lund Observatory, Lund University, Box 43, Svanegatan 9, S-221 00 Lund, Sweden

16-cm	Repsold meridian circle	+13 11 13.9	+55 41 51.6	34	A	
25-cm	solar telescope	+13 11 14.5	+55 41 51.6	34	A	
10.8-cm	Steinheil-Jünger equatorial refractor	+13 11 19.5	+55 42 01	34	EU	
18-cm	astrograph					
24.5-cm	Merz-Jünger equatorial refractor					?-1965
	Repsold universal instrument					?-1965

Onsala Space Observatory, Chalmers Technical University, S-439 00 Onsala, Sweden

26-m	equatorial parabolic radio telescope	+11 55 08.5	+57 23 37.0	24	G	1963+
20-m	radio telescope	+11 55 39.4	+57 23 46.9	25	G	1976+
7.5-m	radio telescopes #1					Former
7.5-m	radio telescopes #2					Former
7.5-m	radio telescopes #3					Former
10x13-m	rectangular antenna #1					Former
10x13-m	rectangular antenna #2					Former

Stockholm Observatory, Stockholm University, S-133 36 Saltsjöbaden, Sweden

60/50-cm	Grubb-Parsons photovisual double refractor	+18 18 30	+59 16 18	60	U	1931+
1.0-m	Cassegrain/Newtonian reflector	+18 18 30	+59 16 18	60	U	1931+
40-cm	Zeiss astrograph	+18 18 30	+59 16 18	60	U	1931+
65-cm	Schmidt reflector	+18 18 30	+59 16 18	60	U	1963+
25-cm	Zeiss reflector					
R=1.07-m	Bird quadrant					

SWITZERLAND

Arosa Astrophysical Observatory, CH-7050 Arosa, Switzerland

11-cm	coronagraph	+9 40 07	+46 46 57	2050	A	
	refractor	+9 40 07	+46 46 57	2050	A	
	horizontal solar telescope	+9 40 07	+46 46 57	2050	A	
	coelostat					

Basle University Astronomical Institute, University of Basle, Venusstrasse 7, CH-4103 Binningen, Switzerland

7-cm	transit instrument	+7 35 00.3	+47 32 27.2	318	A	
60-cm	Cassegrain reflector					

17-cm	equatorial telescope					
30-cm	reflector					
40/48-cm	Schmidt reflector					
7-cm	meridian circle					

Cantonal Observatory, Rue de l'Observatoire 58, CH-2000 Neuchâtel, Switzerland

25-cm	photographic zenith tube	+6 57 28.56	+46 59 51.9	488	A	c.1955+
30/36-cm	Zeiss photovisual double astrograph	+6 57 13	+47 00 05	490	EU	c.1911+
16-cm	Zeiss refractor					c.1920+
11.7-cm	meridian circle					Former
7-cm	Bamberg transit instrument					Former

Geneva Observatory, Chemin des Maillettes 51, CH-1290 Sauverny, Switzerland

62.5-cm	Cassegrain reflector	+6 08 12.2	+46 18 26.9	465	EU	1976+
27-cm	Plantamour equatorial telescope					1966+

Gornergrat North & South Observatory, Sidlerstrasse 5, CH-3012 Berne, Switzerland

1.0-m	Ritchey-Chrétien reflector	+7 47 04.1	+45 59 04.1	3135	G	1976-1985; former; French telescope
1.5-m	infrared reflector					1979+; Italian telescope
3-m	submillimeter radio reflector					1986+; German telescope

High Alpine Research Observatory, Sidlerstrasse 5, CH-3012 Berne, Switzerland

76-cm	Grubb-Parsons Cassegrain/Coudé telescope	+7 59 06	+46 32 53	3576	G	1967+
50-cm	solar telescope					1958+
1-m	Schaer Cassegrain reflector					1926-1930; Geneva Obs. tel.; to Obs. of Haute-Provence
60-cm	Schaer Cassegrain reflector					1924-?; former; Meudon Obs. telescope
30-cm	coelostat					

Swiss Federal Observatory, Institute of Astronomy, ETH Zentrum, SEC, CH-8092 Zürich, Switzerland

	meridian circle	+8 33 03.9	+47 22 38.3	469	A	
	solar tower telescope	+8 33 04.6	+47 22 38.6	481	U	
	refractor	+8 33 03.1	+47 22 38.9	485	U	
16-cm	Kern-Merz refractor	+8 33 04.5	+47 22 37.6	469	A	
30/35-cm	Zeiss equatorial photovisual refractor	+8 33 04.3	+47 22 38.9	469	A	
8-cm	Fraunhofer equatorial refractor					
42/34-cm	photovisual astrograph					
8-cm	spectroheliosope					
	Bamberg universal instrument					
12-cm	meridian circle					
8-cm	Ertel meridian circle					
15-cm	Zeiss refractor					
15-cm	Kern equatorial telescope					
89-mm	Merz equatorial telescope					

University of Lausanne Observatory, University of Lausanne, Institute of Astronomy, CH-1290 Chavannes-des-Bois, Switzerland

62.5-cm	Cassegrain reflector	+6 08 12.2	+46 18 26.9	465	EU	1976+

Zimmerwald Observatory, Berne University, Sidlerstrasse 5, CH-3012 Berne, Switzerland

40/60/103-cm Schmidt telescope	+7 27 58.24	+46 52 40.3	903	EU	
62-cm Cassegrain reflector					
25/40-cm Schmidt reflector #1					
25/40-cm Schmidt reflector #2					

TADZHIKISTAN

Institute of Astrophysics, Tadzhik Academy of Sciences, Ul. Sviridenko 22, 734670 Dushanbe, Tadzhikistan

16.5-cm refractor	+68 46 52.0	+38 33 40.0	820	A	
76-mm refractor	+68 46 52.0	+38 33 40.0	820	A	
15-cm refractor	+68 46 52.0	+38 33 40.0	820	A	
binoculars	+68 46 52.0	+38 33 40.0	820	A	

TAIWAN (REPUBLIC OF CHINA)

National Central University Observatory, National Central University, Department of Physics, Chung-li 32054, Taiwan

61-cm Boller & Chivens reflector	+121 11 10.3	+24 58 09.2	152	G	10/1980+
18-cm Cassegrain reflector					
11-cm equatorial refractor					

Taipei Observatory, 5 Chung-shan North Road, Section 4 (Yuan-shan), Taipei 10452, Taiwan

41-cm Cassegrain/Newtonian reflector	+121 31 38	+25 04 40.3	31	G	?-1973; inactive
25-cm refractor					c.1973+
12.5-cm refractor #1					c.1972+
12.5-cm refractor #2					1989+
15-cm cometseeker					c.1979+
20-cm coelostat					c.1983+

TURKEY

Ege University Observatory, Ege University (Campus), 35100 Bornova-Izmir, Turkey

48-cm Cassegrain reflector	+27 16 30	+38 23 54	795	G	
15.3-cm Unitron refractor	+27 15 45	+38 23 52	632	A	

Istanbul University Observatory, Istanbul University, 34452 Istanbul, Turkey

30-cm Zeiss astrographic refractor	+28 57 52.40	+41 00 40.0	65	A	1935+
7-cm Askania meridian telescope					1935+
12-cm refractor					1935+
13-cm equatorial photovisual telescope					1935+
15-cm refractor					1935+

Kandilli Observatory, Bogazici University, 81220 Çengelköy-Istanbul, Turkey

9-cm	transit telescope	+29 03 39	+41 03 49	120	A	?-1950
10-cm	OPL Danjon astrolabe					?-1970
9-cm	Askania zenith telescope					?-1950
12.5-cm	refractor					c.1960+
20-cm	Zeiss visual refractor					c.1930+
15-cm	photovisual refractor #1					c.1965+
15-cm	photovisual refractor #2					c.1965+
11-cm	refractor					c.1970+
10-cm	refractor					c.1975+

University of Ankara Observatory, University of Ankara, Astronomy Department, 06100 Beşevler, Ankara, Turkey

30-cm	Maksutov photoelectric Cassegrain telescope	+32 46 45	+39 50 37	1266	G	1975+
15-cm	Zeiss Coudé refractor					1963+
15-cm	photographic refractor					?-1975
	small radio telescope					

UKRAINE

Crimean Astrophysical Observatory-Partizanskoye, P/O Nauchny, 334413 Crimea, Ukraine

1.27-m	reflector	+34 01 00	+44 43 42	550	U	1949+
2.64-m	Shajn equatorial reflector	+34 00	+44 44	----	U	1960+
51-cm	Maksutov telescope					1953+
40-cm	double photographic astrograph					1949+
89-cm	solar tower telescope					1954+
20-cm	Lyot coronagraph					1948+
51-cm	Lyot coronagraph					1978+
1.27-m	Nikonov reflector					1976+
69-cm	reflector					1968+
81-cm	reflector					1988+
46-cm	solar tower telescope					1970+
80-cm	Jena Ritchey-Chrétien reflector					c.1989+

Crimean Astrophysical Observatory-Simeis, P/O Nauchny, 334413 Crimea, Ukraine

1-m	Grubb reflector	+34 00 57.10	+44 32 07.8	676	U	05/1926-c.1943
B=800-m	2-element interferometer					Two 31-m reflectors
19-m	steerable paraboloid					
22-m	steerable paraboloid					1967+
18x8-m	steerable cylindrical paraboloid					
	radar site #1	+33 15 00.00	+44 58 27.3	----	U	
	radar site #2	+33 14 54.38	+44 58 27.0	----	U	

Institute of Radio Astronomy, Ukrainian Academy of Sciences, Ul. Krasnoznamennaya 4, 310002 Kharkov, Ukraine

B=1860x900-m	UTR-2 T-shaped dipole array	+36 56	+49 38	150	U	
	URAN-1 linear array interferometer	+36 21	+49 39	150	U	

Kharkov University Astronomical Observatory, Kharkov University, Ul. Sumskaya 35, 310022 Kharkov, Ukraine

20-cm	Zeiss refractor	+36 13 55.8	+50 00 09.9	138	A	
15-cm	refractor	+36 13 55.8	+50 00 09.9	138	A	
26-cm	refractor	+36 13 55.8	+50 00 09.9	138	A	
76-mm	refractor	+36 13 55.8	+50 00 09.9	138	A	
16-cm	meridian circle	+36 13 57.69	+50 00	----	A	
5-cm	telescope	+36 13 55.8	+50 00 09.9	138	A	
60-cm	reflector					
70-cm	transit instrument					
16-cm	reflector					

Kiev University Observatory, Kiev State University, Ul. Observatoria 3, 252053 Kiev, Ukraine

24-cm	Gomz double astrograph	+30 29 55	+50 27 12	184	EU	
12-cm	Ertel meridian circle	+30 30 08.4	+50 27 11.8	184	U	1845-1870
12.7-cm	Maksutov telescope	+30 29 55	+50 27 12	184	EU	
10.7-cm	Reinfelder-Hertel refractor	+30 29 55	+50 27 10	184	U	
7-cm	Goerz refractor	+30 29 55	+50 27 10	184	U	
24.3-cm	Repsold-Merz refractor	+30 30 07	+50 27 10	184	A	
12.7-cm	astrograph	+30 30 07	+50 27 10	184	A	
12-cm	Utzschneider-Fraunhofer cometseeker	+30 30 07	+50 27 10	184	A	
72-mm	Fraunhofer-Utzschneider refractor	+30 30 07	+50 27 10	184	A	
83-mm	Busch refractor	+30 30 07	+50 27 10	184	A	
	Bardu telescope	+30 30 07	+50 27 12	184	A	
	Universal precision theodolite	+30 30 07	+50 27 12	184	A	
	portable azimuthal telescope	+30 30 07	+50 27 12	184	A	
11.4-cm	Ertel transit instrument					1845-?
25-cm	Utzschneider-Fraunhofer equatorial refractor					1845-1892
75-mm	binoculars	+30 30 07	+50 27 10	184	A	
	Zeiss binoculars	+30 30 07	+50 27 12	184	A	
	solar horizontal spectrograph					

Lvov University Observatory, Lvov State University, Ul. Lomonosova 8, 290005 Lvov, Ukraine

14-cm	Zeiss astrographic refractor	+24 01 48	+49 49 58	330	EU	
13.5-cm	Merz refractor	+24 01 46.8	+49 49 58	330	EU	
8-cm	refractor	+24 01 46.8	+49 49 58	330	EU	
13-cm	Zeiss refractor	+24 01 46.9	+49 49 57.6	330	G	
75-mm	Plössl refractor	+24 01 46.9	+49 49 57.6	330	G	
21-cm	vertical solar telescope					
1.05-m	astrocamera					
8-cm	binoculars	+24 01 46.9	+49 49 57.6	330	EU	

Main Astronomical Observatory, Ukrainian Academy of Sciences, Golosiiv, 252650 Kiev, Ukraine

19-cm	vertical circle	+30 30 25	+50 21 55	188	A	1971+
40-cm	long-focus astrograph	+30 30 00	+50 21 56	196	A	1949+
12-cm	double astrograph	+30 30 00	+50 21 56	184	A	Former
40/40-cm	wide-angle twin astrograph	+30 30 20	+50 21 54	193	A	1975+
44-cm	horizontal solar telescope	+30 30 00	+50 21 00	185	A	1966+
70-cm	reflector	+30 30 00	+50 21 00	184	A	1962+

60-cm	reflector #1	+42 31 00	+43 16 00	3100	A	1982+; Terskol station
60-cm	reflector #2	+42 31 00	+43 16 00	3100	A	1987+; Terskol station
60-cm	reflector #3	+66 52 00	+38 42 00	2730	A	1981+; Majdanak station

Nikolaev Astronomical Observatory, Ul. Observatornaya 1, 327030 Nikolaev, Ukraine

15-cm	meridian circle	+31 58 28.8	+46 58 18.5	54	A	
16-cm	Repsold-Merz refractor	+31 58 27	+46 58 20	55	A	c.1824-?
	transit instrument	+31 58 27.52	+46 58	----	A	
	astrograph	+31 58 27	+46 58 20	55	A	
11-cm	Ertel meridian circle					c.1824-?
11-cm	vertical circle					
24-cm	Repsold equatorial telescope					
69-mm	portable Herbst transit instrument					

Odessa Observatory, I.I. Mechnikov University-Odessa, T.G. Shevchenko Park, 270014 Odessa, Ukraine

16-cm	Cooke refractor	+30 45 30	+46 28 37.5	60	A	
8-cm	Zeiss telescope	+30 45 30	+46 28 37.7	54	A	
11-cm	Steinheil telescope	+30 45 27	+46 28 37.5	54	A	
	binoculars	+30 45 30	+46 28 38.4	54	A	
14/15-cm	photovisual double astrograph					
14-cm	meridian circle					
30-cm	Ponomarev reflector					
10-cm	refractor					
10-cm	triple astrograph					

UNITED KINGDOM

Armagh Observatory, College Hill, Armagh BT61 9DG, Northern Ireland

25.4-cm	Robinson Grubb refractor	−6 38 52.3	+54 21 11.4	64	A	1885+
46/30-cm	Calver Schmidt reflector	−6 38 51.1	+54 21 11.2	64	U	1883+
63-mm	Troughton equatorial refractor					1795+
23-cm	Herschel reflector					?-1835
38-cm	Grubb Newtonian/Cassegrain reflector					1835-1921
15.9-cm	Ellison refractor					1921-?; to Royal School
D=1.42-m	Jones mural circle					1832-c.1890; O=17.8-cm
95-mm	Jones transit instrument					1827-?
R=3.66-m	zenith sector					1841-?; O=10.8-cm
99-mm	achromatic telescope					
	heliostat					
	Sisson brass quadrant					
38-mm	Jones refractor					c.1830-?
	Dollond split-objective telescope					c.1795-?
	Adams transit instrument					?-1851; to Queen's College
	Adams reflector					
15-cm	Short Newt./Cass./Gregorian reflector					
	Dollond refractor #1					
	Dollond refractor #2					

	Gilkerson transit theodolite					
	Adams equatorial theodolite					
	Dollond theodolite					
	Opik's special meteor camera #1					
	Opik's special meteor camera #2					

Cambridge University Observatories, Madingley Road, Cambridge CB3 9DQ, England

63-cm	Newall Cooke equatorial visual refractor	+0 05 44.1	+52 12 48.6	30	GB	1891-1957; to Pentele Sta., Greece
38-cm	Huggins Grubb visual achromatic refractor	+0 05 47.5	+52 12 47.3	30	GB	From Tulse Hill, England
29-cm	Northumberland Cauchoix visual refractor	+0 05 41.2	+52 12 51.6	28	U	1838+
20-cm	Thorrowgood refractor	+0 05 39	+52 12 50	29	U	
13-cm	Stevenson refractor	+0 05 46.1	+52 12 48.3	30	GB	
12.7-cm	Dollond transit instrument	+0 05 41.2	+52 12 51.6	28	U	1824-1869
90-cm	Grubb-Parsons Newtonian reflector					1890+
90-cm	Cassegrain/Coudé reflector					
43/63/162-cm	Grubb-Parsons Schmidt telescope					
32-cm	Sheepshanks Grubb equat. photographic refr.					
32-cm	solar telescope					
30-cm	Cooke triple telescope					1898+
16.5-cm	Cookson floating zenith telescope					1903-1908; to Royal Obs., Greenwich
40-cm	coelostat					
7-cm	Jones equatorial refractor					1832-1899
D=2.44-m	Troughton & Simms mural circle					1833-1871; O=114-mm; museum

Chilbolton Observatory, Chilbolton, Stockbridge, Hampshire SO20 6BJ, England

25-m	steerable altazimuth paraboloid	−1 26 13.12	+51 08 40.1	100	GB	c.1967+

City Observatory, Calton Hill, Edinburgh EH7 5AA, Scotland

16-cm	Fraunhofer/Repsold transit circle	−3 10 45.7	+55 57 23.2	107	A	1834-1888; in situ
15-cm	Cooke photovisual telescope	−3 10 45.7	+55 57 23.2	107	A	1896+
30-cm	Dall-Kirkham telescope	−3 10 45.7	+55 57 23.2	107	A	
46-cm	Dall-Kirkham telescope	−3 10 45.7	+55 57 23.2	107	A	
32-cm	reflector	−3 10 45.0	+55 57 23.2	106	GB	
53-cm	Buckingham equatorial telescope					
	Gregorian reflector					
89-mm	Troughton & Simms altazimuth instrument					1833-1840; in situ
5-cm	Troughton transit instrument					1814-1833
55-cm	refractor					?-1926
30-cm	Key reflector					?-1926

Godlee Observatory, University of Manchester, Institute of Science and Technology, Sackville Street, Manchester M60 1QD, England

20-cm	Grubb refractor	−2 13 57.52	+53 28 34.1	77	GB	1903+
30-cm	Grubb reflector	−2 13 57.52	+53 28 34.1	77	GB	
68-mm	Troughton & Simms meridian circle					Former

Mills Observatory, Balgay Park, Glamis Road, Dundee DD2 2UB, Scotland

25-cm	Cooke refractor	−3 00 39.8	+56 27 54.2	152	GB	1952+
10-cm	Merz refractor	−3 00 39.8	+56 27 54.2	152	GB	c.1960-1989

Mullard Radio Astronomy Observatory, Cambridge University, Cavendish Laboratory, Madingley Road, Cambridge CB3 0HE, England

4.9-km	8-element Ryle radio telescope	+0 02 37.23	+52 10 12.2	17	A	1972+; eight 13-m paraboloids
1.61-km	3-element radio telescope	+0 02 21.64	+52 09 47.3	17	A	1964+; three 18.3-m paraboloids
805-m	4-element radio telescope					1968+; four 9-m paraboloids
20x450-m	cylindrical reflector					1957+
471x80-m	phased array					1978+
4.7-km	240-yagi array					1983+
4.7-km	58-yagi array					1987+
250x64-m	phased array					1976-?; former
470x45-m	phased array					1967-?; former
1.4-km	50-yagi array synthesis interferometer					1975-?; former
5-km	60-yagi array (CLFST)					1975-?; former

Nuffield Radio Astronomy Laboratories, University of Manchester, Jodrell Bank, Macclesfield, Cheshire SK11 9DL, England

76-m	Mark IA steerable altazimuth parabolic reflector	−2 18 25	+53 14 10.5	78	GB	1957+
38x26-m	Mark II steerable altazimuth radio telescope	−2 18 06	+53 14 06	78	GB	1964+
38x26-m	Mark III steerable altazimuth radio telescope	−2 35 42	+53 06 48	48	GB	1966+; Wardle site
25-m	steerable altazimuth parabolic radio telescope	−2 59 42	+52 47 24	65	GB	1977+; Knockin site
25-m	equatorial radio telescope	−2 08 36	+52 06 00	43	GB	1960+; Defford site
66.4-m	radio dish					Univ. of Manchester telescope
38-m	radio dish					
13-m	altazimuth radio dish	−2 18 18.5	+53 14 08.3	----	U	Univ. of Manchester telescope
9-m	radio dish					
7.6-m	radio dish					
3-m	radio dish					
25-m	steerable altazimuth paraboloid	−2 32 03.3	+53 09 21.6	47	U	Darnhall site
25-m	steerable altazimuth paraboloid	−2 26 38.3	+53 17 18.4	35	U	Pickmere site

Royal Observatory Edinburgh, Blackford Hill, Edinburgh EH9 3HJ, Scotland

91-cm	Grubb-Parsons Cassegrain reflector	−3 10 57	+55 55 30.0	146	U	1928-1981
61-cm	reflector	−3 11 03	+55 55 30.0	146	U	?-1896
38-cm	Grubb visual refractor	−3 11 03	+55 55 30.0	146	U	1896-1932
51-cm	Grubb-Parsons reflector	−3 11 15.45	+55 55 23.9	141	GB	
15.4-cm	Simms cometseeker	−3 11 15	+55 55 24.9	141	GB	1896+
25-cm	astrographic camera					?-1932
16.5-cm	Repsold/Fraunhofer transit circle					
21.8-cm	Troughton & Simms transit circle					1896-?; former
41/41-cm	Grubb-Parsons twin photometric reflector					1963-c.1975; to St. Andrews Univ. Obs.
41/63-cm	Cox-Hargreaves/Thomson Schmidt telescope					1951-1975
33-cm	reflector					1896+
31-cm	Browning reflector					1896+
15.3-cm	Cooke refractor					1896+
76-mm	Cooke refractor					1896+
	Cooke theodolite					1896+
	Troughton & Simms altazimuth instrument					1896+
10-cm	reversible transit instrument					1896+
71-mm	Troughton & Simms transit instrument					1896+
10-cm	Repsold/Grubb heliometer					1896+

	Eichens-Gautier siderostat					
	kinetheolite					
38-cm	Grubb visual refractor					1932+
25-cm	astrographic camera					1932+

Satellite Laser Ranger Group, Herstmonceux Castle, Hailsham, East Sussex BN27 1RP, England

50-cm	SLR reflector (receiver)	+0 20 15.82	+50 52 00.5	31	GB	1983+
10-cm	SLR refractor (transmitter)	+0 20 15.82	+50 52 00.5	31	GB	1983+

University of Glasgow Observatory, University of Glasgow, Acre Road/Maryhill Road, Glasgow G20 0TL, Scotland

50-cm	Grubb-Parsons Ritchey-Chrétien reflector	–4 18 20	+55 54 08	53	G	?-1984; former
30-cm	telescope #1	–4 18 22	+55 54 09	53	G	?-1987; former
30-cm	telescope #2	–4 18 20	+55 54 08	53	G	1987+
6-cm	transit telescope	–4 18 19	+55 54 08	53	G	
18-cm	Cooke refractor					?-1965; former
	coelostat					
23-cm	equatorial telescope					

University of London Observatory, University College London, Mill Hill Park, London NW7 2QS, England

61-cm	Wilson reflector	–0 14 26.50	+51 36 46.3	81	A	1925+; from Daramona, Ireland
20-cm	Cooke-Fry refractor	–0 14 26.84	+51 36 45.8	81	A	
11.4-cm	reflector	–0 14 26.8	+51 36 45.8	81	A	
61/46-cm	photovisual refractor					
20-cm	coelostat					
2-m	radio dish					

University of St. Andrews Observatory, University of St. Andrews, Buchanan Gardens, St. Andrews, Fife KY16 9LZ, Scotland

50-cm	Ritchey-Chrétien reflector	–2 48 52.5	+56 20 12	30	U	1973+
90-cm	Schmidt/Cassegrain reflector	–2 48 54	+56 20 13.2	30	U	1962+
15-cm	Zeiss refractor	–2 48 53.7	+56 20 13.8	29	GB	1965+
41/41-cm	Grubb-Parsons twin Ritchey-Chrétien reflector	–2 48 54.2	+56 20 12.7	30	U	1983+; from Royal Obs. Edinburgh
40/50-cm	Schmidt/Cassegrain reflector	–2 48 53.6	+56 20 14.1	29	U	1965+

USA—ALABAMA

University of Alabama Observatory, University of Alabama, Dept. of Physics and Astronomy, 206 Gallalee Hall, Box 870324, Tuscaloosa, Alabama 35487-0324

25-cm	Fecker refractor	–87 32 32.6	+33 12 33	87	U	
15-cm	refractor					
20-cm	Schmidt camera					
25-cm	Newtonian reflector					
20-cm	Celestron reflector					

USA—ARIZONA

Anderson Mesa Station, Lowell Observatory, P.O. Box 1269, 1400 West Mars Hill Road, Flagstaff, Arizona 86001

1.83-m	Perkins Warner & Swasey reflector	−111 32 09.30	+35 05 48.6	2200	NA	1961+; from Perkins Obs.
1.07-m	Hall Ritchey-Chrétien reflector #1	−111 32 07.9	+35 05 48.3	2200	NA	1970+
33-cm	Lowell astrographic refractor	−111 32 08.0	+35 05 44.4	2200	NA	1971+
79-cm	Cassegrain reflector	−111 32 09.0	+35 05 54.6	2200	NA	1961+
	Navy Prototype Optical Interferometer (NPOI)	−111 32 02	+35 05 45	2205	S	10/1994+; U.S. Naval Obs./Lowell Obs./NRL instr.

Flagstaff Station, U.S. Naval Observatory, P.O. Box 1149, Flagstaff, Arizona 86002-1149

1.52-m	astrometric reflector	−111 44 23.6	+35 11 02.5	2316	NA	06/1964+
1.02-m	Ritchey-Chrétien reflector	−111 44 14.9	+35 11 03.6	2312	NA	09/1955+; from U.S. Naval Obs.
61cm	Cassegrain reflector	−111 44 15.5	+35 11 04.5	2313	NA	1971+
25-cm	Fahrand Automatic Transit Circle (ATC)	−111 44 37.4	+35 11 04.6	2271	NA	09/1976-?; modified to 20-cm refractor
20-cm	refractor	−111 44 37.4	+35 11 04.6	2271	NA	Formerly 25-cm ATC

Fred L. Whipple Observatory, Harvard-Smithsonian Center for Astrophysics, P.O. Box 97, Amado, Arizona 85645-0097

1.5-m	Tillinghast reflector	−110 52 39.00	+31 40 51.4	2344	NA	1970+
10-m	mosaic optical reflector	−110 52 41.60	+31 40 49.0	2342	NA	248 hexagonal reflectors
51-cm	reflector with laser	−110 52 38.65	+31 41 02.8	2381	NA	c.1969-1986; inactive
51/76-cm	Baker-Nunn Schmidt camera	−110 52 38.65	+31 41 02.7	2383	NA	03/1968-c.1975; from NASA/Langley Meteor Obs.
25-cm	Fairborn Automatic Photoel. Telescope (APT)	−110 52 38.65	+31 41 02.8	2381	NA	1985+
25-cm	Phoenix Automatic Photoel. Telescope (APT)	−110 52 38.65	+31 41 02.8	2381	NA	1986+
41-cm	Vanderbilt Automatic Photoel. Telescope (APT)	−110 52 38.65	+31 41 02.8	2381	NA	1987+
61-cm	SUNY Cassegrain reflector	−110 53 08.64	+31 40 19.9	2344	NA	1972-1990; to Custer Inst. Obs.
76-cm	SAO telescope	−110 52 38.65	+31 41 02.7	2381	NA	1988+; Smithsonian Aph. Obs. telescope
76-cm	CAPT telescope	−110 52 38.65	+31 41 02.7	2381	NA	1989+
76-cm	Fairborn telescope #1	−110 52 38.65	+31 41 02.7	2381	NA	1989+
1.2-m	reflector	−110 53 08.64	+31 40 19.9	2344	NA	03/1991+
	Infrared/Optical Telescope Array (IOTA)					12/1993+; two 45-cm reflectors

Kitt Peak National Observatory, P.O. Box 26732, Tucson, Arizona 85726-6732

4-m	Mayall Ritchey-Chrétien equatorial reflector	−111 35 57.61	+31 57 50.3	2120	NA	02/1973+
2.1/1.6/1.2-m	McMath solar telescope	−111 35 40.80	+31 57 30.4	2078	NA	11/1962+
2.13-m	Corning Cassegrain/Coudé reflector	−111 35 51.56	+31 57 29.2	2096	NA	09/1964+
1.3-m	Boller & Chivens Cassegrain reflector	−111 35 51.78	+31 57 34.5	2074	NA	c.1965+
91-cm	Boller & Chivens reflector #2	−111 35 56.33	+31 57 28.7	2095	NA	Late 1966+
51-cm	reflector #3	−111 35 50.14	+31 57 28.0	2083	NA	
40-cm	Cassegrain reflector #1	−111 35 40.8	+31 57 30.3	2064	NA	
40-cm	Cassegrain reflector #2					03/1959-09/1962
30-cm	Schmidt reflector					
61-cm	solar vacuum tower telescope					1973+
40-cm	Boller & Chivens Cassegrain reflector #3					04/1962-?; to Hard Labor Creek Obs.
40-cm	Boller & Chivens reflector #4					11/1963+
91-cm	SARA Warner & Swasey/Brashear reflector #1					1993+

Kitt Peak Station, Steward Observatory, University of Arizona, Astronomy Department, Building 65, 949 North Cherry Avenue, Tucson, Arizona 85721

2.29-m	Bok Boller & Chivens Ritchey-Chrétien refl.	−111 35 58.24	+31 57 46.9	2071	NA	09/1969+
91-cm	Warner & Swasey/Brashear reflector #1	−111 35 59.71	+31 57 28.7	2091	NA	11/1963-Summer 1990; to Kitt Peak Natl. Obs.
51-cm	Schmidt/Cassegrain reflector #4	−111 35 58.38	+31 57 28.6	2088	NA	1972+

Kitt Peak Station, Warner and Swasey Observatory, Case Western Reserve Univ., Dept. of Ast., 10900 Euclid Ave., Cleveland, Ohio 44106-7215

61/91-cm	Burrell Schmidt reflector	−111 35 54.8	+31 57 37.9	2084	NA	06/1979+

Lowell Observatory, P.O. Box 1269, 1400 West Mars Hill Road, Flagstaff, Arizona 86001

61-cm	Morgan reflector	−111 39 51.2	+35 12 14.1	2219	NA	1971+
61-cm	Clark equatorial refractor	−111 39 48	+35 12 08	2210	NA	1896+
53-cm	reflector	−111 39 59.2	+35 12 10.4	2213	NA	1951+
51-cm	Tinsley 3-element apochromatic refractor	−111 39 51.3	+35 12 09.7	2220	NA	1964-1984
38-cm	Petitdidier reflector					Former
1.07-m	Clark reflector #2	−111 39 56.7	+35 12 11	2215	NA	1909-1964
46-cm	astrograph	−111 39 51.3	+35 12 09.7	2220	NA	06/1984+
33-cm	Lowell astrographic refractor	−111 39 51.2	+35 12 14.1	2219	NA	1929-1971; to Anderson Mesa Station
46-cm	Brashear refractor					Mounted with 30-cm refractor
30-cm	Clark photographic refractor					Mounted with 46-cm refractor
1.02-m	Boller & Chivens Cassegrain/Coudé reflector					From Lindheimer Rsch. Center
41-cm	Boller & Chivens Cassegrain reflector					From Lindheimer Rsch. Center
38-cm	reflector					Never mounted
23-cm	Schmidt camera					In storage since 1968
20-cm	Schmidt camera					In storage since 1968
13-cm	Brashear photographic doublet					In storage

McGraw-Hill Observatory, Massachusetts Institute of Technology, Box 220, Sells Star Route, Tucson, Arizona 85735

1.3-m	Tinsley Cassegrain/Coudé reflector	−111 36 57	+31 57 01	1925	NA	05/1975+; from Univ. of Michigan Radio Ast. Obs.
2.4-m	Hiltner Ritchey-Chrétien equatorial reflector	−111 37	+31 57	1938	U	1985+; Michigan/Dartmouth/MIT tel.

MMT Observatory, University of Arizona, 949 North Cherry Street, Tucson, Arizona 85721

4.5-m	Multiple-Mirror Telescope (MMT)	−110 53 04.3	+31 41 19.6	2608	NA	05/1979-1998; six 1.83-m reflectors
6.5-m	altazimuth reflector					1998+

Mount Bigelow (Catalina) Station, Steward Observatory, Univ. of Arizona, Astronomy Dept., 949 North Cherry Avenue, Tucson, Arizona 85721

1.54-m	Cassegrain/Coudé reflector	−110 43 55.1	+32 25 00.7	2510	NA	10/1965+
42-cm	Schmidt camera					1972+
1.02-m	Cassegrain reflector					To Mt. Lemmon Station
53-cm	Perkin-Elmer/Astro Mechanics Cass. reflector					01/1963-?

Mount Lemmon Infrared Observatory, Univ. of Minnesota/Univ. of California, General Delivery, Summerhaven P.O., Tucson, Arizona 85619

1.52-m	Astro Mechanics Cassegrain reflector	−110 47 27	+32 26 29	2776	U	12/1970+

Mount Lemmon (Catalina) Station, Steward Observatory, Univ. of Arizona, Ast. Dept., Bldg. 65, 949 North Cherry Ave., Tucson, Arizona 85721

1.54-m	multipurpose reflector	−110 47 16.9	+32 26 33.9	2790	NA	1970+
1.02-m	Cassegrain reflector	−110 47 16.9	+32 26 33.9	2790	NA	1970+
70-cm	Cassegrain reflector	−110 47 16.9	+32 26 33.9	2790	NA	1970-1989; former

National Radio Astronomy Observatory, c/o University of Arizona, Astronomy Department, 949 North Cherry Avenue, Tucson, Arizona 85721-0655

10.75-m	mm-wavelength parabolic radio telescope	–111 36 51.12	+31 57 12.1	1939	NA	1966-?; modified to 12-m telescope
12-m	mm-wavelength parabolic radio telescope	–111 36 51.12	+31 57 12.1	1939	NA	Formerly a 10.75-m telescope

Northern Arizona University Observatory, Northern Arizona University, Department of Physics and Astronomy, Box 6010, Flagstaff, Arizona 86011-6010

61-cm	Fecker Cassegrain reflector	–111 39 09.84	+35 11 03.5	2110	NA	1952+
41-cm	Fecker coelostat	–111 39 09.84	+35 11 03.5	2110	NA	1952-1962

Steward Observatory, University of Arizona, Astronomy Department, Building 65, 949 North Cherry Avenue, Tucson, Arizona 85721

53-cm	Cassegrain reflector	–110 56 55.2	+32 13 59.4	757	U	1963+
91-cm	Warner & Swasey/Brashear reflector	–110 56 55.2	+32 13 54.4	757	U	1922-1963; to Steward Obs. Kitt Peak Station
11-cm	Brashear equatorial photovisual refractor					
10-cm	Warner & Swasey transit instrument					
76-mm	telescope					
20-cm	Clark refractor					
32-cm	Newtonian reflector					

Submillimeter Telescope Observatory, Steward Observatory, University of Arizona, Tucson, Arizona 85721

10-m	Heinrich Hertz Submillimeter Telescope (SMT)	–109 53 28.4	+32 42 05.8	3190	S	1993+
8.4/8.4-m	Large Binocular Telescope (LBT)	–109 51	+32 42	3170	U	1997+

Tumamoc Hill (Catalina) Station, Steward Observatory, Univ. of Arizona, Astronomy Dept., 949 North Cherry Avenue, Tucson, Arizona 85721

41-cm	reflector	–111 00 20	+32 12 51	945	NA	Inactive
17-cm	Bailey astrograph	–111 00 20.6	+32 12 47.6	950	NA	1967+
50-cm	Perkin-Elmer/Astro Mechanics Cass. reflector	–111 00 20	+32 12 48	950	NA	1972+

Vatican Observatory Research Group, Steward Observatory, University of Arizona, Tucson, Arizona 85721

1.8-m	Lennon Vatican Advanced Tech. Tel. (VATT)	–109 53 31.25	+32 42 04.7	3181	S	1995+

USA—CALIFORNIA

Big Bear Solar Observatory, California Institute of Technology, 40386 North Shore Lane, Big Bear City, California 92314-9672

65-cm	Gregorian vacuum reflector	–116 54 51	+34 15 14	2067	U	
25-cm	vacuum refractor					
21.8-cm	refractor					
15-cm	white light refractor					
15-cm	patrol telescope					At California Inst. of Tech.
12.5-cm	patrol telescope					In Tel Aviv, Israel
	Razdow telescope					From San Fernando Obs.

Chabot Observatory, 4917 Mountain Boulevard, Oakland, California 94619

10.5-cm	Fauth transit telescope	–122 10 38.12	+37 47 13.0	100	NA	
50-cm	Rachel Brashear/Warner & Swasey refractor	–122 10 38.61	+37 47 13.1	106	NA	1916+
24-cm	refractor	–122 10 37.75	+37 47 14.7	100	NA	1965+
20-cm	Clark refractor	–122 10 38.65	+37 47 12.3	103	NA	12/1919+

41-cm	reflector					
16.3-cm	Clark refractor					Former; from G. Davidson Obs.

Goldstone Complex, P.O. Box 997, Barstow, California 92311

26-m	equatorial parabolic radio telescope	−116 50 54.74	+35 23 22.3	1036	NA	1958-?; Pioneer Station-inactive
26-m	parabolic radio telescope	−116 48 16.59	+35 17 59.9	1001	NA	1962-1978; modified to 34-m; Echo Station
34-m	parabolic radio telescope	−116 48 16.59	+35 17 59.9	1001	NA	1978+; formerly 26-m tel.; Echo Station
26-m	parabolic radio telescope	−116 47 38.43	+35 14 51.8	1094	NA	1962+; Venus Station
64-m	steerable parabolic radio telescope	−116 53 19.15	+35 25 33.3	1032	NA	04/1966-1988; modified to 70-m; Mars Station
70-m	steerable parabolic radio telescope	−116 53 19.15	+35 25 33.3	1032	NA	1988+; formerly 64-m tel.; Mars Station
9.15-m	unified S-band parabolic radio antenna	−116 52 19.54	+35 20 29.6	968	NA	1965+; Venus Station
26-m	unified S-band antenna	−116 52 21.96	+35 20 29.6	973	NA	1965+
12-m	antenna	−116 53 12.24	+35 19 54.0	940	NA	
	minitrack interferometer system	−116 53 57.27	+35 19 48.1	929	NA	
20.3-cm	MOTS-40 camera	−116 53 57.27	+35 19 48.1	929	NA	
	16-element SATAN yagi array	−116 53 17.61	+35 19 54.0	937	NA	
34-m	antenna	−116 53 10.52	+35 25 18.9	994	NA	1988+

Griffith Observatory, 2800 East Observatory Road, Los Angeles, California 90027

30/24-cm	Zeiss double refractor	−118 17 56.9	+34 07 06.0	357	NA	09/1955+
20-cm	triple coelostat					

Hat Creek Radio Astronomy Observatory, University of California-Berkeley, Route 2, Box 500, Bidwell Road, Cassel, California 96016

26-m	steerable equatorial paraboloid	−121 28 22.60	+40 49 04.6	1043	A	06/1962-01/1993; destroyed
	9-element BIMA interferometer	−121 28 18.49	+40 49 02.5	-----	U	Nine 6-m paraboloids
10.1-m	equatorial radio reflector					12/1959-c.1960; former
3-m	radio dish					c.1970+; formerly part of 2-element interf.
6-m	radio reflector					Spring 1968+; was part of 2-el. interf., now part of BIMA

Leuschner Observatory, University of California-Berkeley, Department of Astronomy, Berkeley, California 94720

76-cm	Tinsley Ritchey-Chrétien reflector	−122 09 24	+37 55 05.9	304	NA	1968+; from Leuschner Obs., Berkeley
51-cm	Cassegrain reflector	−122 09 24	+37 55 05.9	304	NA	1968+; from Leuschner Obs., Berkeley

Lick Observatory, University of California-Santa Cruz, P.O. Box 85, Mt. Hamilton Road, Mt. Hamilton, California 95140

3.05-m	Shane reflector	−121 38 09.9	+37 20 35.2	1290	NA	1959+
90-cm	Lick Clark/Warner & Swasey equatorial refractor	−121 38 31.1	+37 20 28.3	1290	NA	1888+
16-cm	Clark/Repsold meridian circle	−121 38 43.9	+37 20 25.3	1283	A	1884-1956; to La Plata Obs.
30-cm	Clark equatorial refractor	−121 38 30.2	+37 20 30.6	1285	NA	10/1881-1979; former
61-cm	photometric Cassegrain reflector	−121 38 00.7	+37 20 37.3	1295	NA	1964-early 1995; former
51-cm	Carnegie Fecker double astrographic camera	−121 38 13.1	+37 20 33.6	1285	NA	1941+
1.02-m	Nickel reflector	−121 38 30.2	+37 20 30.6	1285	NA	1980+
91-cm	Crossley Grubb/Common reflector	−121 38 35.1	+37 20 18.0	1235	NA	06/1896+
56-cm	Tauchmann Cassegrain reflector	−121 38 20.6	+37 20 31.1	1270	NA	c.1955+
	Shane Coudé Auxiliary Telescope (CAT)					
16.5-cm	portable Clark/Warner & Swasey equat. refractor					
10-cm	Clark cometseeker					Former
10-cm	Fauth transit/zenith telescope					1881-1940's; to Leuschner Obs.
15-cm	Crocker Brashear telescope					

	horizontal photoheliograph					1881-?
76-cm	KAIT telescope					Early 1995+

MIRA Oliver Observing Station, Monterey Inst. for Research in Ast., P.O. Box 1551, 900 Major Sherman Lane, Monterey, California 93940

91-cm	Cassegrain reflector	−121 34 11.2	+36 18 19.5	1525	NA	c.1978+

Mount Laguna Observatory, San Diego State University, Astronomy Department, San Diego, California 92182-0540

60-cm	equatorial Cassegrain reflector	−116 25 33	+32 50 24	1859	NA	1980+
1.02-m	Astro Mechanics equat. Cass./Coudé reflector	−116 25 33	+32 50 24	1859	NA	1982+; from Prairie Obs.
41-cm	Cassegrain reflector	−116 25 33	+32 50 24	1859	NA	1968+
53-cm	Cassegrain reflector	−116 25 33	+32 50 24	1859	NA	1988+

Mount Wilson Observatory, Hale Solar Laboratory, 740 Holladay Road, Pasadena, California 91106

2.54-m	Hooker Cassegrain reflector	−118 03 22.4	+34 13 33.2	1737	NA	11/1918-06/1985; 1993+
1.52-m	Ritchey reflector	−118 03 23.6	+34 13 28.4	1737	NA	12/1908+
61-cm	TIE telescope	−118 03 36	+34 12 48	1625	U	
H=18.3-m	Snow tower telescope					1907+
51-cm	reflector					
1.02-m	reflector					
30-cm	reflector					
15-cm	visual refractor					
H=45.7-m	solar tower telescope					1912+
25-cm	Cooke/Fecker astrographic triplet					
15.2-m	interferometer					Former; to L. McCormick Obs.
2.45-m	5-element CHARA array					Five 1-m telescopes; Georgia State Univ. instrument

Owens Valley Radio Observatory, California Institute of Technology, P.O. Box 387, Big Pine, California 93513

39.6-m	steerable altazimuth paraboloid	−118 16 53.83	+37 13 55.7	1236	NA	
5-m	altazimuth paraboloid	−118 16 56.2	+37 14 02.6	1222	NA	
	2-element interferometer	−118 17 37.19	+37 13 55.7	1226	NA	Two 27.4-m paraboloids
	3-element interferometer	−118 16 56.2	+37 14 02.6	1222	NA	1984+; three 10.4-m paraboloids
25-m	VLBA radio antenna	−118 16 33.98	+37 13 54.2	1207	NA	1990+

Palomar Observatory, Palomar Mountain, California 92060

5.08-m	Hale Cassegrain reflector	−116 51 50.38	+33 21 22.4	1706	NA	11/1949+
1.24/1.83-m	Oschin Schmidt photographic equat. telescope	−116 51 32	+33 21 26	1696	NA	1948+
1.52-m	Ritchey-Chrétien Cassegrain/Coudé reflector	−116 51 31	+33 20 56	1683	NA	1970+
46-cm	Schmidt camera	−116 51 42	+33 21 14	1694	NA	
51-cm	reflector					

San Fernando Observatory, California State University-Northridge, 14031 San Fernando Road, Sylmar, California 91342

61/28-cm	vacuum reflector/spectroheliograph	−118 29 28.02	+34 18 28.9	371	NA	05/1969+
30-cm	optical spar telescope	−118 29 28.02	+34 18 28.9	371	NA	c.1970+
15-cm	solar white-light refractor	−118 29 28.02	+34 18 28.9	371	NA	c.1964+
1.52-m	3-cm wavelength radio telescope	−118 29 28.02	+34 18 28.9	371	NA	c.1969-?; inactive
1.52-m	10-cm wavelength radio telescope	−118 29 28.02	+34 18 28.9	371	NA	c.1969+

15-cm	H_α telescope #1					
15-cm	H_α telescope #2					
	USAF Razdow telescope					Former; to Big Bear Solar Obs.; U.S. Air Force tel.
25-mm	photometric telescope					02/1985+
76-mm	telescope					07/1987+

SRI Radio Astronomy Observatory, Stanford Research Institute, 333 Ravenswood Avenue, Menlo Park, California 94025

18.6-m	radio telescope	−122 10 35	+37 24 15	168	NA	c.1954-1958
18.3-m	radio dish					c.1959+
9.14-m	radio dish #1					c.1965+
9.14-m	radio dish #2					c.1965+
	30 MHz meteor scatter radar					Former
	25 MHz digital polarimeter					Former

Stanford Center for Radar Astronomy, Stanford University, Durand Building, Stanford, California 94305

45.7-m	paraboloid	−122 10 42.55	+37 27 31.0	172	NA	1961+

Stanford University Radio Astronomy Institute, Stanford University, Stanford, California 94305-4035

	5-element interferometer	−122 11 18	+37 23 54	80	NA	Five 18.3-m equatorial dishes
	32-element cross antenna					Former

Table Mountain Observatory, California Institute of Technology, P.O. Box 367, Wrightwood, California 92397

61-cm	Astro Mechanics Cassegrain/Coudé reflector	−117 40 52.55	+34 22 53.5	2285	NA	1965+
41-cm	Ealing Cassegrain reflector	−117 40 51.22	+34 22 54.0	2287	NA	1986+
46-cm	reflector	−117 39 48	+34 22 53	2268	NA	
11.7-cm	BC-4 camera	−117 40 50.52	+34 22 54.5	2284	NA	
11.7-cm	BC-4 camera	−117 40 50.74	+34 22 44.4	2198	NA	
1.04-m	Cassegrain reflector	−117 40 50.52	+34 22 54.6	2288	NA	1989+; Pomona Col. telescope
1.22-m	Cassegrain/Newtonian reflector	−117 40 51.91	+34 22 55.2	2291	NA	1989+
25/35.6-cm	CIT Schmidt camera	−117 40 51.65	+34 22 53.4	2281	NA	1985+
41-cm	Nishimura reflector					
4.88-m	mm-wavelength radio telescope					
5.49-m	mm-wavelength parabolic radio antenna					
3.05-m	mm-wavelength radio antenna					

USA—COLORADO

Chamberlin Observatory, University of Denver, Department of Physics, Denver, Colorado 80208-0202

51-cm	Clark/Saegmüller equat. photovisual refractor	−104 57 09.0	+39 40 33.8	1644	NA	1894+
15-cm	portable equatorial reflector	−104 57 08.5	+39 40 33.4	1643	U	Former
12.7-cm	refractor	−104 57 49.9	+39 40 59.4	1626	U	
15-cm	Grubb equatorial refractor					
5-cm	transit instrument					Former
10-cm	meridian circle					
30-cm	Walton Newtonian reflector					
20-cm	Glover Cassegrain reflector					Former

Dick Mountain Station, Chamberlin Observatory, University of Denver, Department of Physics, Denver, Colorado 80208-0202

40-cm photographic reflector	–105 26 12.8	+39 25 36.7	2675	NA	1979+
20-cm Schmidt camera	–105 26 12.8	+39 25 36.7	2675	NA	

Meyer-Womble Observatory, University of Denver, Department of Physics and Astronomy, 2112 East Wesley Avenue, Denver, Colorado 80208-0202

61-cm Ealing-Beck Ritchey-Chrétien Cass. reflector	–105 38 25.16	+39 35 12.7	4305	NA	1972-?; to Sapello, New Mexico; NASA tel.
71/71-cm Meyer Binocular Ritchey-Chrétien Telescope					08/1996+

Sommers-Bausch Observatory, University of Colorado, Astrophysics Department, Boulder, Colorado 80309

60-cm Boller & Chivens Cassegrain/Coudé reflector	–105 15 45.0	+40 00 13.4	1653	NA	1973+
45-cm DFM Cassegrain reflector					1982+
30/27-cm heliostat					1982+
27-cm Bausch/Saegmüller refractor					1953-?; museum
40-cm DFM Cassegrain reflector					1987+

Tiara Observatory, P.O. Box 1059, Colorado Springs, Colorado 80901

15-cm refractor	–105 31 00.8	+38 58 09.6	2679	NA	1969+
41-cm Cassegrain reflector					1978+
41-cm Newtonian reflector					1986+
20-cm Cassegrain reflector					1988+
15-cm yellow light astrograph					1975+
33-mm yellow light astrograph					1975+
53-mm blue light astrograph					1975+
19-mm red light astrograph					1975+
wide-angle meteor radiant camera (3)					1979+
color index meteor camera (2)					1979+
solar eclipse camera (6)					1970+
meteor trail spectrograph					1988+
meteor spectrograph (5)					1979+

U.S. Air Force Academy Observatory, USAF Academy-DFP, Colorado Springs, Colorado 80840

60-cm Boller & Chivens Cassegrain/Newtonian reflector	–104 52 29.25	+39 00 22.2	2187	A	11/1979+; mounted with 25-cm camera
25-cm Schmidt camera	–104 52 58.99	+39 00 22.4	2184	NA	1969+; mounted with 60-cm reflector
20-cm PC-1000 camera	–104 52 58.99	+39 00 22.4	2184	NA	
40-cm Automated Tracking Telescope (ATT)	–104 52 29.2	+39 00 22.0	----	A	1989+

USA—CONNECTICUT

Van Vleck Observatory, Wesleyan University, Department of Astronomy, Middletown, Connecticut 06457

50-cm Clark equatorial visual refractor	–72 39 33	+41 33 18	65	NA	07/1922+
60-cm Perkin Boller & Chivens Cassegrain reflector	–72 39 33	+41 33 18	64	NA	1971+
25-cm Cassegrain reflector	–72 39 33	+41 33 18	65	NA	1986+
15-cm Fisk Lerebours achromatic refractor					1916-1986
3.05-m spectrohelioscope					Inactive
30-cm Clark equatorial refractor					1869-1922

	transit instrument #1					Inactive
	transit instrument #2					Inactive

Western Connecticut State Univ. Obs., Western Conn. State Univ., Dept. of Physics and Astronomy, 181 White Street, Danbury, Connecticut 06810

40-cm	reflector	−73 26 42	+41 24 02.6	128	NA	c.1986+
20-cm	Schmidt/Cassegrain reflector					Summer 1986-late 1986; former
20-cm	portable Newtonian reflector					Summer 1986-late 1986; former
	portable Questar reflector					

USA—DELAWARE

Mount Cuba Astronomical Observatory, P.O. Box 3915, Hillside Mill Road, Greenville, Delaware 19807

61-cm	Tinsley equatorial Cassegrain reflector	−75 38 01.01	+39 47 03.9	92	NA	09/1963+
11.4-cm	Brashear-Clark refractor	−75 38 01.4	+39 47 04.1	92	NA	1973+
32-cm	reflector	−75 38 00.1	+39 47 03.5	83	NA	Delaware Ast. Society telescope
10-cm	refractor					
5-cm	portable Zeiss refractor					

USA—DISTRICT OF COLUMBIA

NRL Radio Astronomy Observatory, Naval Research Laboratory, Space Science Division, 4555 Overlook Avenue S.W., Washington, D.C. 20375-5000

15.2-m	cm-wavelength parabolic reflector	−77 01 36.7	+38 49 16.2	30	U	1952+
3-m	mm-wavelength parabolic reflector	−77 01 36.7	+38 49 16.2	30	U	
79.2x67.1-m	array					
4.88x1.22-m	array					

U.S. Naval Observatory, 3450 Massachusetts Avenue N.W., Washington, D.C. 20392-5420

66-cm	Clark equatorial refractor	−77 04 02.40	+38 55 15.0	92	NA	1893+
17.8-cm	equatorial refractor (Moon camera)	−77 03 58.90	+38 55 15.0	99	NA	1957-1979
30.5-cm	Clark/Saegmüller equatorial refractor	−77 03 58.90	+38 55 15.0	99	NA	2/1895-1957; 1981+
65-cm	photographic zenith tube #7	−77 04 03.99	+38 55 19.4	92	NA	09/1981-12/1991; former
20-cm	double astrograph	−77 04 03.02	+38 55 19.6	86	NA	1971-11/1985; to Black Birch Obs.; 10/1993+
13-cm	Clark refractor	−77 03 59.67	+38 55 13.3	89	NA	1966-1973; former
	USAF satellite camera #659	−77 03 59.67	+38 55 13.3	89	NA	1963-1965; U.S. Air Force instrument
13-cm	NCA Clark refractor	−77 04 01.08	+38 55 13.2	82	NA	1939-c.1994; former; Natl. Capital Astr. telescope
12.5-cm	prime vertical transit telescope	−77 04 02.40	+38 55 17.2	----	NA	1894-1925; former
13.5-cm	Ertel south transit telescope	−77 03 59.55	+38 55 15.0	----	NA	1894-1940; destroyed
15-cm	Warner & Swasey transit circle	−77 04 03.44	+38 55 16.8	88	NA	12/1897-1995; inactive
61-cm	reflector	−77 04 05.21	+38 55 19.1	93	NA	1971+
1.02-m	Ritchey-Chrétien reflector	−77 04 05.21	+38 55 19.1	93	NA	1935-1954; to Flagstaff Station
30.5-cm	Clark/Saegmüller equatorial refractor	−77 04 05.21	+38 55 19.1	93	NA	1961-1971; former
38-cm	Warner & Swasey astrograph	−77 04 02.40	+38 55 20.7	85	NA	1950-02/1993; to Yerkes Obs.
25-cm	astrograph	−77 04 02.40	+38 55 20.7	85	NA	1942-1950
12-cm	Danjon astrolabe #2	−77 04 04.39	+38 55 19.4	88	NA	1970-c.1982; former
12-cm	Danjon astrolabe #1	−77 04 04.39	+38 55 19.4	88	NA	02/1959-05/1961; to Richmond Station; 1995+

20-cm	photographic zenith tube #3	–77 04 04.39	+38 55 19.4	88	NA	05/1954-04/1956; former
12-cm	Warner & Swasey altazimuth telescope	–77 04 04.39	+38 55 19.4	88	NA	1893-1934; former
20-cm	Ross photographic zenith tube #1	–77 04 04.20	+38 55 19.8	88	NA	1915-05/1955; former
20-cm	photographic zenith tube #3	–77 04 01.80	+38 55 19.8	84	NA	04/1956-10/1984; former
18-cm	transit circle	–77 04 01.36	+38 55 16.8	89	NA	1955-67; to Yale-Col. Sta.; 1973-01/1994; to Black Birch Obs.
23-cm	Clark transit circle	–77 04 01.36	+38 55 16.8	89	NA	10/1894-1945; former
13-cm	photoheliograph	–77 03 59.44	+38 55 13.6	88	NA	1907-01/1972; former
63-mm	meridian instrument	–77 04 01.08	+38 55 13.2	82	NA	1894-?
25-cm	Fahrand Automatic Transit Circle (ATC)	–77 04 01.36	+38 55 16.8	89	NA	1972-08/1976; to Flagstaff Station
35.6-cm	NASM Celestron reflector	–77 04 01.08	+38 55 13.2	82	NA	c.1994+; Natl. Air & Space Museum telescope
58-cm	Clark refractor					Never mounted
4.5-m	Base Earth Station (BEST) radio dish #1	–77 05 00.28	+38 55 13.8	----	G	05/1987-c.late 1993; former
4.5-m	Base Earth Station (BEST) radio dish #2	–77 05 00.28	+38 55 13.8	----	G	08/1990+
4.5-m	Base Earth Station (BEST) radio dish #3	–77 05 00.28	+38 55 13.8	----	G	04/1993+

USA—FLORIDA

Brevard Community College Observatory, Brevard Community College, Astronaut Memorial Space Science Center, 1519 Clearlake Road, Cocoa, Florida 32922

61-cm	Cassegrain reflector	–80 45 42.74	+28 23 04.4	17	NA	c.1976+
40-cm	Newtonian reflector	–80 45 46.08	+28 23 04.5	17	NA	Former
32-cm	Cassegrain reflector	–80 45 43.02	+28 23 03.5	17	NA	
20-cm	heliostat	–80 45 43.02	+28 23 04.1	17	NA	c.1976+
30-cm	Newtonian reflector	–80 45 42.91	+28 23 04.1	17	NA	Former
20-cm	Cassegrain reflector #1	–80 45 42.91	+28 23 04.1	17	NA	c.1976+
20-cm	Cassegrain reflector #2	–80 45 42.91	+28 23 04.1	17	NA	c.1976+
15-cm	Newtonian reflector (8)	–80 45 42.91	+28 23 04.1	17	NA	c.1976+
15-cm	refractor	–80 45 42.74	+28 23 04.4	17	NA	1989+
10-cm	Newtonian reflectors (9)	–80 45 42.91	+28 23 04.1	17	NA	1988+
76-mm	refractor #1	–80 45 42.91	+28 23 04.1	17	NA	
76-mm	refractor #2	–80 45 42.91	+28 23 04.1	17	NA	
5-m	radiometer	–80 45 42.91	+28 23 04.5	----	NA	?-1988; former

Rosemary Hill Observatory, University of Florida, Department of Astronomy, 211 Space Sciences Building, Gainesville, Florida 32611

76-cm	Tinsley Cassegrain/Newtonian reflector	–82 35 11.0	+29 23 59.4	44	NA	1970+
45-cm	Ritchey-Chrétien Cassegrain reflector	–82 35 13	+29 24 03	41	NA	1974+
32-cm	Cassegrain reflector					

University of Florida Radio Observatory, University of Florida, Department of Astronomy, 211 Space Sciences Building, Gainesville, Florida 32611

640-dipole rectangular array	–83 02 04	+29 31 44	8	U	c.1976+
20-dipole NS linear array					Former
7-element yagi					
5-element yagi (4)					
5-element 18 MHz cross yagi					1964+
5-element 22 MHz cross yagi					c.1966-c.1969; destroyed
4-element log-spiral array					1986+

USA—GEORGIA

Bradley Observatory, Agnes Scott College, Department of Astronomy, Decatur, Georgia 30030

76-cm	Beck Fecker equatorial Cassegrain reflector	−84 17 38.98	+33 45 54.8	316	NA	Former; to Hard Labor Creek Obs.
35-cm	Celestron telescope					

Fernbank Observatory, Fernbank Science Center, 156 Heaton Park Drive N.E., Atlanta, Georgia 30307

90-cm	Tinsley Ritchey-Chrétien Cassegrain reflector	−84 19 05.3	+33 46 43.5	320	NA	1967+
12.7-cm	Celestron reflector #1					
12.7-cm	Celestron reflector #2					
20-cm	Celestron Schmidt camera					
28-cm	Celestron reflector #1					
28-cm	Celestron reflector #2					
15-cm	Cave-Astrola reflector #1					
15-cm	Cave-Astrola reflector #2					
10-cm	Cave refractor					
20-cm	Celestron reflector #1					
20-cm	Celestron reflector #2					
20-cm	Celestron reflector #3					

Hard Labor Creek Observatory, Georgia State University, Department of Physics and Astronomy, Atlanta, Georgia 30303

1-m	Multi-Telescope Telescope (MuTT)	−83 35 36.0	+33 40 13.8	223	S	11/1994+; nine 33-cm mirrors
40-cm	CHARA Boller & Chivens Cassegrain reflector	−83 35 36.0	+33 40 13.8	223	S	From Kitt Peak Natl. Obs.
76-cm	Beck Fecker Cassegrain reflector	−83 35 36.0	+33 40 13.8	223	S	Bradley Obs. telescope
20-cm	portable Meade Schmidt/Cassegrain reflector #1	−83 35 36.0	+33 40 13.8	223	S	01/1991+
20-cm	portable Meade Schmidt/Cassegrain reflector #2	−83 35 36.0	+33 40 13.8	223	S	01/1991+
32-cm	portable Meade altazimuth telescope #1	−83 35 36.0	+33 40 13.8	223	S	05/1995+
32-cm	portable Meade altazimuth telescope #2	−83 35 36.0	+33 40 13.8	223	S	05/1995+
20-cm	portable Schmidt camera	−83 35 36.0	+33 40 13.8	223	S	01/1991+

USA—HAWAII

Caltech Submillimeter Observatory, California Institute of Technology, P.O. Box 4339, Hilo, Hawaii 96720

10.4-m	steerable parabolic radio dish	−155 28 31.79	+19 49 20.8	4072	S1	11/1986+

Canada-France-Hawaii Telescope Corporation, P.O. Box 1597, Kamuela, Hawaii 96743

3.6-m	CFH optical/infrared Cassegrain equat. reflector	−155 28 07.95	+19 49 30.9	4204	S1	08/1979+

C.E.K. Mees Solar Observatory, University of Hawaii, Institute for Astronomy, 2680 Woodlawn Drive, Honolulu, (Oahu), Hawaii 98622

25-cm	Perkin-Elmer coronagraph	−156 15 22.0	+20 42 22	3054	U	04/1969+; on 3.7-m spar
15-cm	photoheliograph					Former
10-cm	H_α flare patrol telescope					Mounted on 3.7-m spar
10-cm	dual coronagraph					
15-cm	polarimeter-photometer					
	K-line patrol telescope					

Gemini North Observatory, Gemini Observatory Project, 670 A'ohoku Place, Hilo, Hawaii 96720

8.1-m	Gemini Ritchey-Chrétien altazimuth reflector	−155 28 08.57	+19 49 25.7	4213	S1	1998+

Joint Astronomy Centre, 665 Komohana Street, Hilo, Hawaii 96720

3.8-m	UK Grubb-Parsons IR Cass. eq. reflector (UKIRT)	−155 28 13.18	+19 49 20.8	4198	S1	1978+; UK/Dutch telescope
15-m	J.C. Maxwell radio dish (JCMT)	−155 28 37.20	+19 49 22.1	4084	S1	12/1986+; UK/Dutch/Canadian telescope

LURE Observatory, University of Hawaii, Institute for Astronomy, P.O. Box 209, Kula, (Maui), Hawaii 96790

41-cm	lunastat telescope (transmitter)	−156 15 31.34	+20 42 37.4	3049	OH	1980+
	multilens lurescope refractor (receiver)	−156 15 31.34	+20 42 38.1	3045	OH	10/1984+; eighty 19-cm lenses
50-cm	SAO Baker-Nunn camera	−156 15 35.92	+20 42 37.5	3034	OH	Former; Smithsonian Aph. Obs. telescope

Mauna Kea Observatory, University of Hawaii, Institute for Astronomy, 2680 Woodlawn Drive, Honolulu, (Oahu), Hawaii 96822

2.24-m	Cassegrain/Coudé reflector	−155 28 09.96	+19 49 22.8	4214	S1	11/1970+; Univ. of Hawaii telescope
61-cm	Boller & Chivens Cassegrain reflector #1	−155 28 15.47	+19 49 17.8	4186	S1	11/1969+; NASA/Univ. of Hawaii telescope
61-cm	Boller & Chivens Cassegrain reflector #2					05/1969+;USAF/Univ. of Hawaii telescope
3.2-m	NASA infrared Cassegrain equat. reflector (IRTF)	−155 28 19.20	+19 49 34.4	4168	S1	05/1979+; NASA telescope
1-m	infrared telescope					1977+; Austrian telescope

Subaru Telescope, 650 A'ohoku Place, Hilo, Hawaii 96720

8.3-m	Subaru optical-IR Ritchey-Chrétien telescope	−155 28 33.67	+19 49 31.8	4163	S1	1998+

W.M. Keck Observatory, California Association for Research in Astronomy, P.O. Box 220, Kamuela, Hawaii 96743

10-m	Keck I Ritchey-Chrétien altazimuth reflector	−155 28 29.0	+19 49 33.4	4160	S1	04/1992+; 36 1.8-m mirrors
10-m	Keck II Ritchey-Chrétien altazimuth reflector	−155 28 27.24	+19 49 35.6	4160	S1	04/1996+; 36 1.8-m mirrors

USA—ILLINOIS

Dearborn Observatory, Northwestern University, Department of Physics and Astronomy, 2131 Sheridan Road, Evanston, Illinois 60208-3112

47-cm	Clark refractor	−87 40 30	+42 03 24	195	NA	1889-?; museum
16.5-cm	meridian circle					Former

USA—INDIANA

Goethe Link Observatory, Indiana University, Department of Astronomy, 319 Swain Hall West, Bloomington, Indiana 47405

90-cm	Cassegrain reflector	−86 23 42.90	+39 32 57.7	300	NA	1938+
25-cm	equatorial photographic reflector	−86 23 42.90	+39 32 57.7	300	NA	1948+
40-cm	reflector	−86 26 23	+39 18 49	270	U	1965+
13-cm	Zeiss apochromatic triple refractor					Former

USA—IOWA

Erwin W. Fick Observatory, Iowa State University, Department of Physics and Astronomy, Ames, Iowa 50011-3160

60-cm	Mather Ealing Cassegrain/Coudé reflector	−93 56 27.0	+42 00 20.0	332	NA	Spring 1970+
20-cm	Celestron reflector	−93 56 27.0	+42 00 19.7	330	NA	c.1976+
35-cm	Celestron reflector	−93 56 27.2	+42 00 19.7	330	NA	c.1978+
37-cm	Cassegrain/Newtonian camera	−93 56 27.0	+42 00 20.0	332	NA	c.1980+; mounted on 60-cm reflector

Grant O. Gale Observatory, Grinnell College, Department of Physics, Grinnell, Iowa 50112

61-cm	DFM Cassegrain reflector	−92 43 12.1	+41 45 21.1	318	NA	

North Liberty Radio Observatory, University of Iowa, Department of Physics and Astronomy, North Liberty, Iowa 52242

18.3-m	parabolic radio telescope	−91 34 28.5	+41 46 18	241	NA	
25-m	VLBA radio antenna	−91 34 26.35	+41 46 17.0	241	NA	1989+
8.6-m	paraboloid					?-c.1987; former
11.4-m	array					?-c.1987; former
1.2-m	Cassegrain paraboloid					?-c.1987; former
	16-element phased dipole array					?-c.1987; former
	3-element yagi					?-c.1987; former
	5-element yagi #1					?-c.1987; former
	5-element yagi #2					?-c.1987; former

University of Iowa Observatory, University of Iowa, Department of Physics and Astronomy, 203 Van Allen Hall, Iowa City, Iowa 52242-1479

61-cm	Boller & Chivens Cassegrain reflector	−91 33 36	+41 30 53	221	NA	1964+
31-cm	reflector	−91 33 36	+41 30 53	221	NA	1964+

USA—KANSAS

Clyde W. Tombaugh Observatory, University of Kansas, Department of Physics and Astronomy, Lawrence, Kansas 66045-2151

8-cm	transit instrument	−95 14 59.7	+38 57 33.4	323	A	
68-cm	William Pitt Newtonian reflector	−95 14 59.7	+38 57 33.4	323	A	
15-cm	Clark cometseeker refractor	−95 14 59.7	+38 57 33.4	323	A	
10-cm	transit instrument					
20-cm	Celestron reflector #1					
20-cm	Celestron reflector #2					
20-cm	Celeston reflector #3					
57-mm	Stackpole meridian transit instrument					
36-cm	Celestron reflector					
20-cm	Meade reflector #1					
20-cm	Meade reflector #2					

Zenas Crane Observatory, Washburn University, Department of Physics and Astronomy, Stoffer Science Hall, 1700 College, Topeka, Kansas 66621

31-cm	Brashear equatorial refractor	−95 41 47.6	+39 02 09.4	306	A	
8-cm	Fauth zenith telescope					?-06/1966; damaged/unusable
89-mm	portable refractor					

USA—KENTUCKY

Moore Observatory, University of Louisville, 8000 Old Zaring Road, Crestwood, Kentucky 40014

52.3-cm	Cassegrain/Newtonian reflector	−85 31 45	+38 20 04	216	NA	1978+
35-cm	Schmidt camera	−85 31 45	+38 20 04	216	NA	1981+

USA—MARYLAND

GSFC Optical Test Site, NASA/Goddard Space Flight Center, Code 684.1, Observatories Section, Greenbelt, Maryland 20771

91.5-cm	Boller & Chivens Cassegrain/Coudé reflector	−76 49 37.14	+39 01 15.9	53	NA	06/1969+
1.22-m	satellite tracking Coudé telescope	−76 49 43.33	+39 01 16.9	53	NA	c.1973+
38-cm	mobile Cassegrain reflector with laser	−76 49 42.68	+39 01 15.3	53	NA	Former
46.6-cm	Boller & Chivens reflector	−76 49 41.27	+39 01 14.4	53	NA	
76.2-cm	Cassegrain/Coudé telescope	−76 49 41.27	+39 01 15.2	53	NA	
20.3-cm	PTH-100 camera	−76 49 40.05	+39 01 12.2	53	NA	Former
20.3-cm	PTH-100 camera	−76 49 40.07	+39 01 15.0	53	NA	Former
	laser system	−76 49 41.97	+39 01 13.7	55	NA	Former
	2-element EW interferometer	−76 49 33	+39 01 17	44	NA	Former

Maryland Point Observatory, Naval Research Laboratory, Space Science Division, 4555 Overlook Avenue S.W., Washington, D.C. 20375-6343

25.9-m	parabolic reflector	−77 13 51.14	+38 22 26.7	20	NA	08/1965+
25.6-m	parabolic reflector	−77 13 57.44	+38 22 26.6	23	NA	

University of Maryland Observatory, University of Maryland, Astronomy Program, College Park, Maryland 20742

51-cm	bent Cassegrain reflector	−76 57 22.6	+39 00 07.0	53	NA	Summer 1964+
30-cm	Cassegrain reflector	−76 57 22	+39 00 07	58	NA	1968+
20-cm	astrograph	−76 57 22	+39 00 07	58	NA	Summer 1970+
25-cm	Schmidt/Cassegrain reflector	−76 57 23	+39 00 07	----	NA	
20-cm	NASA reflector					?-Summer 1970
15-cm	heliostat					
6.1-m	parabolic dish					Inactive
	2-element interferometer					

USA—MASSACHUSETTS

Five College Radio Astronomy Observatory, University of Massachusetts, 619-I Graduate Research Tower, Amherst, Massachusetts 01003

13.7-m	steerable mm-wavelength Cassegrain paraboloid	−72 20 41	+42 23 31	314	NA	1976+
	6-element m-wavelength array	−72 20 42	+42 23 33.2	306	NA	1971-1981; former; six 36.6-m dishes

George R. Wallace Jr. Astrophys. Obs., Mass. Inst. of Tech., 54-426 Dept. of Earth Sciences, 77 Massachusetts Avenue, Cambridge, Massachusetts 02139

61-cm	Ealing Cassegrain/Coudé reflector	−71 29 05	+42 36 37	107	NA	1971+
41-cm	Cassegrain reflector	−71 29 06	+42 36 37	107	NA	07/1970+
25-cm	reflector					

Harvard College Observatory, Harvard-Smithsonian Center for Astrophysics, 60 Garden Street, Cambridge, Massachusetts 02138

39-cm	Merz & Mahler equatorial visual refractor	−71 07 48	+42 22 47.6	24	NA	1849+
38-cm	Nadeau refractor	−71 07 43.9	+42 22 52.9	18	NA	
22-cm	Jewett Clark visual refractor					
19-cm	Clark refractor					
1.52-m	Common reflector					1921-1927
38-mm	Ross-Xpres telescope					
28-cm	Draper Clark photographic refractor					1886-1947; to Sun Yat-Sen Univ. Obs.
13-cm	Voigtländer photographic telescope					1891-1919; former
15-cm	Post visual refractor					Former
38-cm	Draper reflector					1890-1907; former
30-cm	Clark visual polar refractor					1888-?; former
10.8-cm	Troughton & Simms meridian circle					1848-?; to Oak Ridge Obs.
76-mm	transit instrument (4)					
21-cm	Clark transit circle					1870-?; former
10-cm	equatorial cometseeker					1845-1851
	Dollond cometseeker					c.1843-1851
7-cm	Troughton & Simms transit instrument					1844-?
11.4-cm	Merz-Simms equatorial refractor					c.1839-?
60-cm	Bruce Clark double photographic refractor					1893-1895; to Boyden Station, Peru
60-cm	Clark photographic refractor					1906-1932; to Oak Ridge Obs.
30-cm	Metcalf double photographic refractor					1923-1938; to Oak Ridge Obs.
40-cm	Metcalf double photographic refractor					1909-1932; to Oak Ridge Obs.
25-cm	Metcalf photographic triplet					1915-1918; to Boyden Station, Peru
33-cm	Clark photographic refractor					1888-1891; to Boyden Station, Peru
20-cm	Bache photographic doublet					1885-1888; to Boyden Station. Peru
20-cm	Draper photographic doublet					1889-1946
10-cm	Cooke photographic telescope					1904-?
76-mm	Darlot photographic telescope					1889-1897
76-mm	Ross-Fecker photographic telescope					1928-1932; to Oak Ridge Obs.
38-mm	Cooke photographic telescope					1898-1934; to Oak Ridge Obs.
1.2-m	radio dish					12/1987+; from Rutherfurd Obs.

Haystack Observatory, Northeast Radio Observatory Corporation, Route 40, Westford, Massachusetts 01886

36.6-m	parabolic radio antenna	−71 29 19.14	+42 37 23.5	146	NA	1964+

Hopkins Observatory, Williams College, Astronomy Department, Williamstown, Massachusetts 01267-2565

18.1-cm	Clark refractor	−73 12 06	+42 42 43	215	NA	
12.5-cm	Carroll spar solar telescope					1972+
35-cm	reflector					1973+
20-cm	equatorial reflector #1					1972+
20-cm	equatorial reflector #2					1972+
11.4-cm	equatorial refractor					1900-1940; 1989+
89-mm	Troughton & Simms transit/zenith telescope					1876-1940; museum
60-cm	DFM Cassegrain telescope					
15-cm	Meade apochromatic refractor					

30-cm	heliostat					1989+
41-cm	coelostat					1974+
2.5-m	radio telescope					1977+

Maria Mitchell Observatory, 3 Vestal Street, Nantucket, Massachusetts 02554

19-cm	Cooke photographic triplet	–70 06 18	+41 16 50	20	A	1913+
20-cm	Celestron reflector					
76-mm	Zeiss altazimuth telescope					
89-mm	Clark telescope					
12.7-cm	Clark refractor #1					1859-?
12.7-cm	Clark refractor #2					To Vassar Col. Obs.

Millstone Hill Atmospheric Science Facility, Haystack Observatory, Westford, Massachusetts 01886

	No instrument given	–71 29 42	+42 36 36	146	NA	
67-m	fixed zenith incoherent scatter antenna					
45.7-m	steerable incoherent scatter antenna					1978+

Millstone Hill Radar Observatory, Massachusetts Institute of Technology, Lincoln Laboratory, P.O. Box 73, Lexington, Massachusetts 02173

25.6-m	steerable high power L-band radar dish	–71 29 29.02	+42 37 02.4	156	NA	

Oak Ridge Observatory, Harvard-Smithsonian Center for Astrophysics, Harvard, Massachusetts 01451

1.55-m	Wyeth Fecker Cassegrain/Newtonian reflector	–71 33 29.32	+42 30 19.0	185	NA	1934+
41-cm	Metcalf double photographic refractor	–71 33 29.7	+42 30 20.5	184	S	1932+; from Harvard Col. Obs.
41-cm	Boller & Chivens reflector					1975+
16.5-cm	Roe Clark visual refractor					
76-mm	Ross/Fecker photographic telescope					1932-1963; former; from Harvard Col. Obs.
30-cm	Metcalf double photographic refractor					1938+
32-mm	Ross-Xpres patrol camera					Former
10-cm	Cooke patrol camera					1911-?; former
61/84-cm	Jewett Perkin-Elmer Schmidt reflector					1942-1957
10-cm	Voigtländer telescope					Former; from Harvard Col. Obs.
20-cm	Ross-Lundin telescope					1934-1976
10-cm	Ross-Lundin photographic telescope					1933-1963
38-mm	Cooke photographic telescope					1934-1957; former; from Harvard Col. Obs.
41-mm	Damon patrol camera #1					?-1962; inactive
41-mm	Damon patrol camera #2					?-1962; inactive
41-mm	Damon patrol camera #3					?-1962; inactive
61-cm	Clark refractor					1932-1953; former; from Harvard Col. Obs.
22.9-cm	geodetic-36 camera	–71 33 31.29	+42 30 21.0	187	NA	Former
25.6-m	equatorial radio antenna	–71 33 30	+42 30 13	183	U	
20-m	radio telescope					Former
18.3-m	parabolic reflector					1956-?; former
7.6-m	radio antenna					Former

Sagamore Hill Radio Observatory, Detachment 2, 4th Weather Wing, P.O. Box 2517, South Hamilton, Massachusetts 01982-0517

8.5-m	equatorial parabolic antenna	–70 49 15.15	+42 37 54.4	53	NA	
2.44-m	equatorial parabolic antenna	–70 49 15.15	+42 37 54.4	53	NA	
91-cm	equatorial parabolic antenna	–70 49 15.15	+42 37 54.4	53	NA	

45-cm	equatorial parabolic antenna	−70 49 15.15	+42 37 54.4	53	NA	Former
8.5-m	equatorial parabolic antenna	−70 49 15.15	+42 37 54.4	53	NA	Former
45.7-m	radio dish					Former
25.6-m	radio dish					Former
	2-element bicone interferometer					
	3-element array					Former; three 1.83-m paraboloids

Westford Antenna Facility, Haystack Observatory, Westford, Massachusetts 01886

18.3-m	radio antenna	−71 29 39.3	+42 36 46.4	115	NA	

Whitin Observatory, Wellesley College, Wellesley, Massachusetts 02181

30-cm	Fitz/Clark equatorial refractor	−71 18 11.56	+42 17 42.0	32	NA	1899+
61-cm	Boller & Chivens reflector	−71 18 10.5	+42 17 34.8	48	A	1967+
15-cm	Clark equatorial refractor	−71 18 11.02	+42 17 41.3	37	NA	1906+
10-cm	Browning polar refractor					c.1906-1960's; former
8-cm	Bamberg transit/zenith telescope					c.1900-c.1955; former
10-cm	Questar reflector	−71 18 10.9	+42 17 41.3	37	NA	
	Hale spectrohelioscope					1934+

USA—MICHIGAN

Central Michigan University Observatory, Central Michigan University, Brooks Hall, Mount Pleasant, Michigan 48859

35-cm	Celestron Schmidt/Cassegrain reflector	−84 46 28.3	+43 35 15.3	258	NA	1977+
20-cm	Celestron Schmidt reflector	−84 46 27.4	+43 35 14.7	255	NA	1977+
50-cm	Star-Liner reflector	−84 46 28.3	+43 35 15.3	258	NA	1965-c.1973

Michigan State University Observatory, Michigan State University, Department of Physics and Astronomy, East Lansing, Michigan 48824-1116

61-cm	Boller & Chivens Ritchey-Chrétien reflector	−84 29 00	+42 42 23	274	NA	

University of Michigan Radio Astronomy Observatory, University of Michigan, 937 Physics-Astronomy Building, Ann Arbor, Michigan 48109-1090

26-m	equatorial radio telescope	−83 56 10	+42 23 55.9	345	NA	1959+
8.5-m	equatorial radio telescope	−83 56 07	+42 23 52.5	345	NA	
61/92-cm	Curtis Warner & Swasey Schmidt reflector	−83 55 28.94	+42 24 10.7	321	U	?-1975; to Cerro Tololo Inter-Amer. Obs.
61-cm	McMath reflector					?-c.1975
1.3-m	Tinsley Cassegrain/Coudé reflector					?-c.1975; to McGraw Hill Kitt Peak Station

USA—MINNESOTA

O'Brien Observatory, University of Minnesota, School of Physics and Astronomy, 116 Church Street S.E., Minneapolis, Minnesota 55455

76-cm	Astro Mechanics equatorial Cassegrain reflector	−92 46 36	+45 10 52	308	NA	
28-cm	Herschelian reflector	−92 46 36	+45 10 52	308	NA	Former; mounted on 76-cm reflector
36-cm	Schmidt reflector	−92 46 36	+45 10 52	308	NA	Mounted on 76-cm reflector
15-cm	Schmidt reflector	−92 46 36	+45 10 52	308	NA	Former; mounted on 76-cm reflector

USA—MISSOURI

Morrison Observatory, Central Methodist College, Department of Physics and Astronomy, 700 Park Road, Fayette, Missouri 65248

31-cm Clark equatorial refractor	−92 41 47.4	+39 09 05.1	228	NA	
32-cm Brown reflector	−92 41 47.4	+39 09 05.1	228	NA	1961+
10-cm portable Clark refractor #1	−92 41 47.4	+39 09 05.1	228	NA	
10-cm portable Clark refractor #2	−92 41 47.4	+39 09 05.1	228	NA	
15-cm Troughton & Simms meridian circle	−92 41 47.4	+39 09 05.1	228	NA	
64-mm refractor					

USA—NEBRASKA

Behlen Observatory, University of Nebraska, Department of Physics and Astronomy, Lincoln, Nebraska 68588-0111

76-cm Boller & Chivens Cassegrain reflector	−96 26 49	+41 10 20	362	NA	1972+

USA—NEVADA

Maclean Observatory, Sierra Nevada College, Department of Astronomy, Incline Village, Nevada 89450

56-cm Celestron Schmidt/Cassegrain reflector	−119 55 41.18	+39 17 44.9	2546	NA	
35-cm Celestron Schmidt reflector	−119 55 41.18	+39 17 44.9	2546	NA	01/1974+; attached to 56-cm reflector
20-cm Celestron reflector	−119 55 41.18	+39 17 44.9	2546	NA	?-01/1974; former; attached to 56-cm reflector
20-cm Celestron Schmidt reflector	−119 55 41.18	+39 17 44.9	2546	NA	Attached to 56-cm reflector
20-cm portable Celestron reflector					

USA—NEW HAMPSHIRE

Shattuck Observatory, Dartmouth College, Department of Physics and Astronomy, Hanover, New Hampshire 03755

24-cm Clark refractor	−72 17 00.3	+43 42 15.3	183	NA	1871+
10-cm Troughton & Simms meridian circle					1854+
20-cm reflector					Former
76-mm Saegmüller transit instrument					1854+
91-mm cometseeker					Former; became guide of 24-cm refractor
10-cm zenith sector					
76-mm portable telescope					

USA—NEW JERSEY

Crawford Hill Observatory, AT&T Bell Laboratories, P.O. Box 400, Holmdel, New Jersey 07733

7-m steerable Cassegrain radio antenna	−74 11 11	+40 23 31	114	NA	07/1976+
6.1-m horn reflecting antenna	−74 11 11	+40 23 31	114	NA	
1.2-m heliostat					

FitzRandolph Observatory, Princeton University, Peyton Hall, Princeton, New Jersey 08544-1001

91-cm	Boller & Chivens reflector	−74 38 46.7	+40 20 43.8	43	NA	c.1966+

USA—NEW MEXICO

Apache Point Observatory, P.O. Box 59, 2001 Apache Point Road, Sunspot, New Mexico 88349

3.5-m	ARC altazimuth reflector	−105 49 11.56	+32 46 49.0	2781	NA	
2.5-m	SDSS Ritchey-Chrétien altazimuth reflector	−105 49	+32 47	2800	U	05/1998+
1.0-m	NMSU reflector					New Mexico State Univ. telescope
1.8-m	reflector					06/1990+; Univ. of Calgary telescope

Blue Mesa Station, New Mexico State Univ. Obs., New Mexico State Univ., Astronomy Dept. 4500, P.O. Box 30001, Las Cruces, New Mexico 88003

60-cm	Astro Mechanics Cassegrain reflector	−107 09 56.78	+32 29 28.7	2025	NA	1967+

Capilla Peak Observatory, University of New Mexico, Department of Physics and Astronomy, 800 Yale N.E., Albuquerque, New Mexico 87131

60-cm	Boller & Chivens Cassegrain reflector	−106 24 18	+34 41 48.0	2842	U	1967+

Corralitos Observatory, Northwestern University, P.O. Box 16314, Las Cruces, New Mexico 88004

61-cm	Ferson Cassegrain reflector	−107 02 33.0	+32 22 50.0	1453	NA	
41-cm	Cassegrain reflector	−107 02 33	+32 22 52	1453	NA	
15-cm	Chrysler off-axis Schmidt reflector	−107 02 33	+32 22 51	1447	NA	1972+
30-cm	Cassegrain reflector	−107 02 33	+32 22 51	1447	NA	Mounted with 15-cm Chrysler reflector
15-cm	folded optics Schmidt telescope					

Joint Observatory for Cometary Research, New Mexico Institute of Mining & Technology, Campus Station, Socorro, New Mexico 87801

56/36-cm	Schmidt camera	−107 11 18.75	+33 59 05.3	3235	NA	
41-cm	Boller & Chivens Cass./Newt. reflector					c.1971+; from Herndon Obs.

National Radio Astronomy Observatory, P.O. Box 0, Socorro, New Mexico 87801-0387

	Very Large Array (VLA)	−107 37 03.82	+34 04 43.5	2124	NA	02/1978+; twenty seven 25-m antennas
25-m	VLBA radio antenna	−108 07 07.24	+34 18 03.6	2371	NA	1987+; Pie Town, New Mexico
25-m	VLBA radio antenna	−111 36 42.26	+31 57 22.4	1916	NA	1988+; Kitt Peak, Arizona
25-m	VLBA radio antenna	−106 14 42.01	+35 46 30.3	1967	NA	1988+; Los Alamos, New Mexico
25-m	VLBA radio antenna	−91 34 26.35	+41 46 17.0	241	NA	1989+; North Liberty, Iowa
25-m	VLBA radio antenna	−119 40 55.34	+48 07 52.8	255	NA	1989+; Brewster, Washington
25-m	VLBA radio antenna	−103 56 39.13	+30 38 05.6	1615	NA	1989+; Ft. Davis, Texas
25-m	VLBA radio antenna	−118 16 33.98	+37 13 54.2	1207	NA	1990+; Owens Valley, California
25-m	VLBA radio antenna	−64 35 02.61	+17 45 30.6	16	PR	1990+; St. Croix, Virgin Islands
25-m	VLBA radio antenna	−71 59 11.69	+42 56 01.0	309	NA	1991+; Hancock, New Hampshire
25-m	VLBA radio antenna	−155 27 28.95	+19 48 15.9	3720	OH	1991+; Mauna Kea, Hawaii

National Solar Observatory, Sacramento Peak, P.O. Box 62, Sunspot, New Mexico 88349

40-cm solar coronagraph	−105 49 09	+32 47 12	2811	U	1954+; on 7.92-m spar
10-cm coronagraph					1949-?; on 2.44-m spar
40-cm side-mounted solar coronagraph	−105 49 09	+32 47 12	2811	U	1976+; on 7.92-m spar
13-cm flare patrol telescope					1952+; on 3.05-m spar
15-cm multi-band sunspot telescope					1979+; on 3.05-m spar
15-cm white light patrol telescope					1954+; on 3.05-m spar
15-cm sunspot drawing telescope					1952+; on 3.05-m spar
76-cm solar vacuum tower telescope					10/1969+
30-cm coelostat					1960+
20-cm coronagraph					1980+; on 3.05-m spar
40-cm Doppler Zeeman analyzer	−105 49 09	+32 47 12	2811	U	1968+; on 7.92-m spar
30-cm Super-Schmidt meteor camera #1					Harvard Col. telescopes
30-cm Super-Schmidt meteor camera #2					Harvard Col. telescopes
55 mc radio telescope					Harvard Col./Cornell Univ. telescope
200 mc radio telescope					Harvard Col./Cornell Univ. telescope

Tortugas Mountain Station, New Mexico State Univ. Obs., New Mexico State Univ., Ast. Dept., P.O. Box 30001, Las Cruces, New Mexico 88003

61-cm Boller & Chivens Cassegrain reflector	−106 41 50.96	+32 17 34.6	1505	NA	1967+
30-cm photographic reflector	−106 41 46.58	+32 17 16.9	1453	NA	?-1967; former
41-cm Schmidt reflector	−106 41 46.58	+32 17 17.3	1453	NA	c.1975+

USA—NEW YORK

C.E. Kenneth Mees Observatory, University of Rochester, Department of Physics and Astronomy, Rochester, New York 14627-0011

60-cm Boller & Chivens Cassegrain reflector	−77 24 31.56	+42 42 01.0	701	NA	

Hartung-Boothroyd Observatory, Cornell University, Department of Astronomy, 512 Space Sciences Building, Ithaca, New York 14853-6801

63-cm Cassegrain reflector	−76 23 04.5	+42 27 29.3	534	NA	03/1977+

Holden Memorial Observatory, Syracuse University, Department of Physics, 201 Physics Building, Syracuse, New York 13244-1130

20.3-cm Clark equatorial refractor	−76 08 18	+43 02 13.1	160	U	1887+
12.7-cm Spencer equatorial refractor					
15.2-cm Brashear cometseeker					
76-mm Troughton & Simms transit instrument					
10-cm refractor					

Rutherfurd Observatory, Columbia University, Astronomy Department, Pupin Hall-Box 46, 538 West 120th Street, New York, New York 10027

32-cm Clark equatorial refractor	−73 57 30	+40 48 34.6	25	NA	
33-cm equatorial photovisual refractor					1935-?; former
8-cm Wanschaff zenith telescope					Former
10-cm Bamberg transit instrument					Former
1.2-m radio dish					1975-1986; to Harvard Col. Obs.

USA—NORTH CAROLINA

Dark Sky Observatory, Appalachian State University, Dept. of Physics and Astronomy, Boone, North Carolina 28608

80-cm	DFM Ritchey-Chrétien reflector	−81 24 44	+36 15 04	926	S	Spring 1995+
46-cm	Cassegrain equatorial reflector					1981+
40-cm	Cassegrain Automatic Photometric Tel. (APT)					
40-cm	Newtonian reflector					

Morehead Observatory, University of North Carolina, Dept. of Physics and Astronomy, CB #3255 Phillips Hall, Chapel Hill, North Carolina 27599-3255

1-cm	Boller & Chivens Cassegrain reflector	−79 03 01.87	+35 54 49.9	161	NA	
76-mm	Simms transit instrument					
64-mm	Simms altazimuth refractor					
64-mm	Dollond telescope					

Three College Observatory, University of North Carolina, Greensboro, North Carolina 27412-5001

81-cm	Cassegrain reflector	−79 24 22.4	+35 56 40.8	183	NA	05/1981+

USA—OHIO

Cincinnati Observatory, University of Cincinnati, Cincinnati, Ohio 45221

40-cm	Clark equatorial refractor	−84 25 21.0	+39 08 19.8	247	A	1904+
10-cm	Clark cometseeker	−84 25 20.2	+39 08 19.7	247	NA	
28-cm	Clark/Merz & Mahler equatorial refractor					1873+
13-cm	Fauth meridian circle					1888+
76-mm	Buff-Berger meridian transit instrument					

Nassau Astronomical Observatory, Warner and Swasey Obs., Case Western Reserve Univ., 10900 Euclid Avenue, Cleveland, Ohio 44106-7215

61/91-cm	Burrell Schmidt reflector	−81 04 30	+41 35 30	390	NA	1957-1979; to Warner & Swasey Kitt Peak Station
91-cm	Cassegrain reflector	−81 04 30	+41 35 00	400	NA	05/1980+

Perkins Observatory, Ohio Wesleyan/Ohio State Universities, P.O. Box 449, Delaware, Ohio 43015

81-cm	Schottland Fecker Cassegrain reflector	−83 03 19.2	+40 15 04.2	280	NA	1961+
40/61-cm	Schottland Fecker Schmidt camera	−83 03 18	+40 15 01	270	NA	1961+
1.75-m	Warner & Swasey reflector	−83 03 19.2	+40 15 04.2	280	NA	12/1931-1961; to Lowell Obs. Anderson Mesa Station
20-cm	Schottland Schmidt telescope					Former
24-cm	refractor					
15-cm	photographic double telescope					

Ritter Observatory, University of Toledo, 2801 West Bancroft Street, Toledo, Ohio 43606

1.02-m	Warner & Swasey Ritchey-Chrétien Cass. refl.	−83 36 48	+41 39 43	201	NA	1967+
10-cm	astrographic camera	−83 36 48	+41 39 43	201	NA	Former; mounted on 1.02-m reflector
15-cm	Brashear refractor					

USA—PENNSYLVANIA

Allegheny Observatory, University of Pittsburgh, P.O. Box 7658, Observatory Station, Pittsburgh, Pennsylvania 15214

76-cm	Thaw Brashear photographic equatorial refractor	−80 01 20.27	+40 28 58.1	380	A	1914+
33-cm	Fitz/Clark equatorial visual refractor	−80 01 19.00	+40 28 57.9	379	A	1912+
76-cm	Keeler Brashear Ritchey-Chrétien reflector	−80 01 18.99	+40 28 58.7	378	A	1906+
10-cm	Troughton & Simms meridian circle	−80 01 20.88	+40 28 58.1	370	A	c.1912-c.1938
10-cm	Brashear refractor					c.1969-?; inactive

Black Moshannon Observatory, Pennsylvania State University, 525 Davey Laboratory, University Park, Pennsylvania 16802

1.6-m	Astro Mechanics Cassegrain reflector	−78 00 15	+40 55 19	738	NA	1974+
61-cm	Cassegrain reflector					1972-c.1984; to Penn State Univ.

Flower and Cook Observatory, Univ. of Pennsylvania, Dept. of Ast. and Astrophysics, 209 South 33rd Street, Philadelphia, Pennsylvania 19104-6394

72-cm	Cassegrain/Newtonian reflector	−75 29 37	+39 59 57	155	NA	From Cook Obs.
38-cm	horizontal refractor	−75 29 38.1	+39 59 55.2	155	NA	From Cook Obs.
25/38-cm	Fecker Schmidt camera					?-1950's; former
76-mm	transit instrument					?-1950's; former
68.6-cm	Ruland Cassegrain reflector					Construction never completed

Kutztown University Observatory, Kutztown University, Physical Science Department, Kutztown, Pennsylvania 19530

46-cm	Tinsley Cassegrain reflector	−75 47 06	+40 30 52	158	NA	
25-cm	reflector					
89-mm	Questar reflector					
12.7-cm	Bausch & Lomb refractor					

Sproul Observatory, Swarthmore College, Department of Physics and Astronomy, Swarthmore, Pennsylvania 19081

61-cm	Brashear visual refractor	−75 21 24.3	+39 54 16.2	63	A	1911+
23-cm	Brashear photographic doublet					1908-?; former
15-cm	Clark equatorial refractor					
76-mm	transit instrument					Former

Strawbridge Observatory, Haverford College, Department of Astronomy, Haverford, Pennsylvania 19041

57-mm	Fauth zenith telescope	−75 18 12	+40 00 40.1	116	A	1883-1940; museum
95-mm	transit instrument					1883-1942; museum
25/10-cm	Clark equatorial photovisual telescope					1883+
21-cm	Newtonian reflector					1888-1940
23-cm	Fitz/Clark equatorial refractor					1851-c.1976
1.2-m	3-cm wavelength radio telescope	−75 18 00	+40 00 38	140	U	1970+

The Franklin Institute Observatory, The Franklin Institute, 20th and the Parkway, Philadelphia, Pennsylvania 19103

25-cm	Zeiss equatorial refractor	−75 10 24	+39 57 27.6	30	G	
61-cm	Fecker equatorial reflector	−75 10 24	+39 57 27.6	30	G	
	cometseeker					
23-cm	solar photographic reflector					

Villanova University Observatory, Villanova University, Department of Astronomy and Astrophysics, Villanova, Pennsylvania 19085

38-cm	Cassegrain reflector	−75 20 32	+40 02 17	145	NA	
25-cm	Schmidt/Cassegrain reflector	−75 20 32	+40 02 17	145	NA	?-1987
16-cm	refractor					
	Wild T-4 theodolite					?-1986
36-cm	Schmidt/Cassegrain reflector #1					
36-cm	Schmidt/Cassegrain reflector #2					
5.49-m	2000 MHz radio dish					?-Summer 1989; former
	30 MHz radio antenna					
2.43-m	10 GHz radio telescope					
	250 MHz interferometer					?-Summer 1989; former

USA—RHODE ISLAND

Ladd Observatory, Brown University, P.O. Box 1843, 210 Doyle Avenue, Providence, Rhode Island 02912

30-cm	Brashear/Saegmüller equatorial refractor	−71 23 59.2	+41 50 15.6	69	A	1891+
30-cm	Smiley Schwarzschild reflector					c.1940+
10-cm	Schmidt camera					c.1940+
76-mm	Saegmüller transit instrument					1891-1972
89-mm	Questar reflector (4)					1971+

USA—SOUTH CAROLINA

Melton Memorial Observatory, University of South Carolina, Department of Physics and Astronomy, Columbia, South Carolina 29208

40-cm	Brashear equat. Cassegrain/Newtonian reflector	−81 01 35.78	+33 59 50.7	98	NA	
	aerial camera					Inactive; at off-campus site

University of South Carolina Radio Observatory, University of South Carolina, Department of Physics and Astronomy, Columbia, South Carolina 29208

5.5-m	steerable Cassegrain dish	−81 01 52	+33 59 46.7	127	NA	
3-m	prime focus transit dish	−81 01 52	+33 59 46.1	124	NA	

USA—TENNESSEE

Arthur J. Dyer Observatory, Vanderbilt University, 1000 Oman Drive, Brentwood, Tennessee 37027

61-cm	Seyfert Baker Schmidt/Cassegrain reflector	−86 48 19.05	+36 03 08.5	345	NA	c.1953+
30-cm	DeWitt reflector	−86 48 19.4	+36 03 08.4	345	U	c.1971+

USA—TEXAS

George R. Agassiz Radio Station, Harvard-Smithsonian Center for Astrophysics, Fort Davis, Texas 79734

26-m	steerable paraboloid	−103 56 47	+30 38 08	1603	NA	1961+
8.5-m	steerable paraboloid					c.1956-Spring 1987; former

fixed broadside array					Former
steerable log-periodic telescope					?-1988; former

McDonald Observatory, University of Texas, P.O. Box 1337, Fort Davis, Texas 79734

2.72-m Harlan Smith Ritchey-Chrétien equatorial refl.	–104 01 17.60	+30 40 17.7	2075	NA	1969+
2.1-m Struve Warner & Swasey reflector	–104 01 20.1	+30 40 17.7	2069	U	03/1939+
91-cm Boller & Chivens Cassegrain reflector	–104 01 17.3	+30 40 16.6	2053	NA	02/1957+
76-cm Boller & Chivens Cassegrain reflector	–104 01 20.0	+30 40 14.3	2050	NA	1970+
18-cm reflector	–104 01 19.9	+30 40 25.0	2093	NA	
33-cm Cassegrain reflector					
20-cm Schmidt camera					
26-cm astrographic refractor					08/1949-04/1956; from Cook Obs.
76-mm fisheye patrol camera					1964+
30-cm refractor					Fall 1934-?; from Yerkes Obs.; to western mtn. slope
30-cm refractor					On western slope of mountain
45.7-cm spectrograph (coelostat)					?-1940; former
76-cm laser ranging station					1981+; on Mt. Fowlkes
15-cm ultraviolet telescope					
94-mm Schmidt camera					
61-cm Dobsonian telescope					06/1989+
11-m Hobby-Eberly Telescope (HET)	–104 01	+30 41	2002	U	1999+; on Mt. Fowlkes

Millimeter Wave Observatory, Balcones Research Center, Electrical Engineering Research Laboratory, 10100 Burnet Road, Austin, Texas 78758

4.85-m radio antenna	–104 01 39	+30 40 17.7	2031	U	1967+

USA—VIRGINIA

Fan Mountain Observing Station, Leander McCormick Observatory, University of Virginia, P.O. Box 3818, Charlottesville, Virginia 22903

1.02-m Baker Schmidt/Cassegrain reflector	–78 41 33.28	+37 52 41.2	566	NA	08/1972+
81-cm Tinsley Cassegrain reflector	–78 41 32.89	+37 52 40.1	554	NA	1964+
25-cm Cooke/Fecker astrographic triplet					1971-1976, 1983+; from L. McCormick Obs.

Leander McCormick Observatory, University of Virginia, P.O. Box 3818, Charlottesville, Virginia 22903

68-cm Clark equatorial refractor	–78 31 22.16	+38 01 57.5	264	NA	1885+
15-cm Clark/Saegmüller visual refractor	–78 31 21.1	+38 01 57.8	262	NA	1895+; from Univ. of Va. Students' Obs.
20-cm Tinsley Cassegrain reflector	–78 31 21.1	+38 01 57.8	262	NA	?-1980
25-cm Cooke/Fecker astrographic triplet	–78 31 21.1	+38 01 57.8	262	NA	1935-1955; to Fan Mtn. Obs.
20-cm Celestron reflector	–78 31 21.1	+38 01 57.8	262	NA	1980+
10-cm Kahler refractor					From Univ. of Va. Students' Obs.
8-cm Fauth meridian transit telescope					Museum

USA—WASHINGTON

Manastash Ridge Observatory, University of Washington, Astronomy Department FM-20, Seattle, Washington 98195

76-cm	Boller & Chivens equatorial Cassegrain reflector	−120 43 24	+46 57 04	1198	NA	05/1972+
20-cm	reflector	−120 43 24	+46 57 04	1198	NA	Former
41-cm	telescope					Former

USA—WEST VIRGINIA

National Radio Astronomy Observatory, P.O. Box 2, Green Bank, West Virginia 24944-0002

	4-element interferometer	−79 50 31.40	+38 25 47.2	836	NA	
	3-element interferometer					1958+; three 26-m radio telescopes
26-m	Tatel steerable equatorial radio telescope	−79 49 42.25	+38 26 08.7	858	NA	03/1959+
26-m	movable radio telescope #1					
26-m	movable radio telescope #2					
92-m	steerable parabolic transit radio telescope	−79 50 56.36	+38 25 46.3	894	NA	10/1962-11/1988; destroyed
42.7-m	steerable equatorial parabolic radio telescope	−79 50 09.61	+38 26 15.4	881	NA	05/1965+
13.7-m	altazimuth radio telescope	−80 00 41	+38 09 12	1066	NA	Huntersville site
14.2-m	radio telescope					At Monterville site
20-m	radio telescope	−79 49 31.87	+38 26 12.7	842	NA	1995+
L=36.6-m	calibration horn antenna					
6.1-m	parabolic radio telescope					
3.66-m	radio telescope					
1.22-m	radio horn					Former
9.45-m	Reber altazimuth parabolic radio telescope					1958+
	Ewen radio horn					
100-m	GBT steerable radio telescope					

NRL Radio Observatory, Naval Research Laboratory, Sugar Grove, West Virginia 26815

45.7-m	altazimuth radio telescope	−79 16 23	+38 31 14	705	NA	
18.3-m	radio telescope	−79 16 36	+38 31 16	698	NA	

USA—WISCONSIN

Pine Bluff Observatory, University of Wisconsin, 4065 Observatory Road, Cross Plains, Wisconsin 53528

91-cm	Boller & Chivens Cassegrain reflector	−89 41 07	+43 04 41	366	NA	
41-cm	reflector	−89 40 18	+43 04 38.0	360	U	Replaced 30-cm telescope
30-cm	telescope	−89 40 18	+43 04 39.7	360	U	Former

Thompson Observatory, Beloit College, Department of Physics and Astronomy, 700 College Street, Beloit, Wisconsin 53511

56-cm	Celestron Cassegrain reflector	−89 01 51	+42 30 16.5	255	NA	1967+
25-cm	portable Celestron reflector (9)					1967+
51-mm	portable refractor #1					From Smith Obs., Beloit
51-mm	portable refractor #2					From Smith Obs., Beloit
76-mm	portable refractor					From Smith Obs., Beloit; on display

Washburn Observatory, University of Wisconsin, Department of Astronomy, 475 North Charter Street, Madison, Wisconsin 53706-1582

40-cm	Clark refractor	−89 24 28.5	+43 04 36.8	292	NA	1879+
15-cm	Clark refractor					1882+
12-cm	Clark-Repsold meridian circle					1881-1988; former
76-mm	Fauth meridian transit instrument					?-1988; former
25-cm	Astroworks folded refractor					

Yerkes Observatory, University of Chicago, P.O. Box 258, 373 West Geneva Street, Williams Bay, Wisconsin 53191-0258

1.02-m	Clark/Warner & Swasey equatorial refractor	−88 33 24.6	+42 34 13.4	334	NA	05/1897+
1.04-m	Ritchey-Chrétien Cassegrain/Coudé reflector	−88 33 15.1	+42 34 12.2	329	U	10/1968+
60-cm	Cassegrain reflector	−88 33 15.1	+42 34 13.1	328	U	02/1964+
15-cm	Brashear cometseeker	−88 33 23.7	+42 34 13.2	334	NA	
30-cm	Kenwood Warner & Swasey photovisual refractor					
14.5-cm	Zeiss equatorial photographic doublet					
	spectrohelioscope					
76-mm	broken-tube transit instrument					
25-cm	Bruce Brashear astrographic camera					
60-cm	Ritchey reflector	−88 33 15.1	+42 34 12.2	329	U	Former
	Snow coelostat					Fall 1903+

USA—WYOMING

Wyoming Infrared Observatory, University of Wyoming, Box 3905, University Station, Laramie, Wyoming 82071

2.3-m	Cassegrain reflector	−105 58 35.5	+41 05 53.4	2943	NA	10/1977+

URUGUAY

Los Molinos Astronomical Observatory, Camino de Los Molinos 5769, 12400 Montevideo, Uruguay

35-cm	reflector	−56 11 25	−34 45 19	110	S

Montevideo Observatory, Casilla de Correo 867, Montevideo, Uruguay

20-cm	Zeiss equatorial refractor	−56 10 27	−34 54 19	62	A

UZBEKISTAN

Tashkent Observatory, Astronomical Institute, Ul. Astronomiceskaja 33, 700052 Tashkent, Uzbekistan

10-cm	visual transit instrument	+69 17 37.1	+41 19 30.4	477	A
34-cm	astrograph	+69 17 37	+41 19 30	470	A
15-cm	Merz refractor	+69 17 38.5	+41 19 30.7	475	A
15-cm	Ganza refractor	+69 17 38.5	+41 19 30.7	475	A
61-mm	Zeiss refractor	+69 17 41.2	+41 19 29.3	457	U
12.7-cm	Reinfelder-Hertel cometseeker	+69 17 38.5	+41 19 36.7	475	A
8-cm	portable altazimuth instrument	+69 17 39.7	+41 19 42.9	475	A
10-cm	Zeiss refractor	+69 17 41.4	+41 19 32.0	457	U

	Maksutov telescope	+69 17 37.2	+41 19 33.3	475	A	
7-cm	portable Fraunhofer refractor	+69 17 42.7	+41 19 30.8	457	U	
35-cm	refractor	+69 17 37.1	+41 19 30.4	477	A	
– 7-cm	Dollond refractor	+69 17 41.8	+41 19 31.3	457	U	
21.5-cm	refractor	+69 17 42.0	+41 19 31.3	457	U	
16.2-cm	refractor	+69 17 42.0	+41 19 31.3	457	U	
89-mm	Zeiss refractor	+69 17 42.0	+41 19 31.3	457	U	
95-mm	refractor	+69 17 42.0	+41 19 31.3	457	U	
13.5-cm	refractor	+69 17 42.0	+41 19 31.3	457	U	
10.8-cm	refractor	+69 17 42.0	+41 19 31.3	457	U	
6-cm	refractor	+69 17 42.0	+41 19 31.3	457	U	
65-mm	refractor	+69 17 42.0	+41 19 31.3	457	U	
76-mm	Mailhat refractor	+69 17 42.0	+41 19 31.3	457	U	
10-cm	photoelectric transit instrument	+69 17 37.32	+41 19 00	----	A	
64-mm	portable telescope	+69 17 38.5	+41 19 36.7	475	A	
12-cm	meridian circle					
76-mm	portable refractor					

Uluk-Bek Latitude Station, 731740 Kitab, Uzbekistan

11-cm	zenith telescope	+66 52 55	+39 08 01.8	658	A	
10-cm	refractor	+66 52 55	+39 08 01.6	658	A	
5-cm	refractor	+66 52 55	+39 08 01.6	658	A	
–	zenith telescope	+67 00	+39 08 00.3	----	A	
	photographic zenith tube	+66 53 00.00	+39 08 00.3	----	A	

VATICAN CITY STATE

Vatican Observatory, Castel Gandolfo, V-00120 Vatican City State (Italy)

60-cm	Zeiss Newtonian/Cassegrain reflector	+12 39 04.95	+41 44 47.4	450	G	1935+; mounted with 40-cm refr. (double astrograph)
40-cm	Zeiss quadruple photographic refractor					1935+; mounted with 60-cm refl. (double astrograph)
40-cm	visual refractor					1935+
33-cm	Carte du Ciel astrograph					1939+; from Papal Gardens
63/98-cm	Schmidt reflector					1961+

VENEZUELA

Cagigal Observatory, La Planicie, Apartado Postal 6745, Caracas 1030, Venezuela

	photographic zenith tube	−66 55 44.05	+10 30 22.4	1026	A	?-1969
19-cm	Askania meridian circle	−66 55 49.19	+10 30 22.6	1040	A	?-1969
10-cm	Askania meridian circle	−66 55 49.19	+10 30 22.4	1040	A	?-1969
20-cm	refractor	−66 55 44.4	+10 30 22.8	1046	SA	?-1962
35-cm	Schmidt camera	−66 55 51.6	+10 30 22.5	1041	A	c.1975+
35-cm	Schmidt/Cassegrain reflector	−66 55 51.6	+10 30 22.5	1041	A	c.1975+
20-cm	Schmidt/Cassegrain reflector	−66 55 51.6	+10 30 22.5	1041	A	c.1975+
65-cm	Zeiss equatorial refractor	−66 55 48.19	+10 30 23.4	----	LC	1959+

50-cm	double astrograph
1.0-m	Askania Schmidt camera
1.52-m	Askania Schmidt reflector
1.0-m	Cassegrain/Coudé reflector

Llano del Hato Observatory, Center of Astronomical Investigation, Apartado 264, Mérida 5101-A, Venezuela

1.0/1.52-m	Askania Schmidt equatorial telescope	−70 52 01	+8 47 26	3610	A 1976+
1-m	Zeiss Coudé reflector	−70 51 59	+8 47 34	3610	A 1976+
65-cm	Zeiss visual refractor	−70 52 01	+8 47 30	3610	A 1976+
50/50-cm	Zeiss twin astrograph	−70 51 58	+8 47 24	3610	A

Name	Location
A.A. Zhdanov State Univ.	Russia
Abastumani	Georgia
Abastumani Astrophysical Obs.	Georgia
Abrahão de Moraes Obs.	Brazil
Agassiz Radio Station, George R.	Texas (USA)
Agnes Scott College	Georgia (USA)
Aguilar Obs., Félix	Argentina
Air Force Academy, U.S.	Colorado (USA)
Air Force Academy Obs., U.S.	Colorado (USA)
Alabama Obs., Univ. of	Alabama (USA)
Alabama, Univ. of	Alabama (USA)
Alberta, Univ. of	Canada
Albuquerque	New Mexico (USA)
Alger	Algeria
Alger Obs.	Algeria
Alger, Univ. of	Algeria
Algonquin Radio Obs.	Canada
Allegheny Obs.	Pennsylvania (USA)
Aller Obs., Ramon Maria	Spain
Alma-Ata	Kazakhstan
Almeria	Spain
Amado	Arizona (USA)
Ames	Iowa (USA)
Amherst	Massachusetts (USA)
A. Mickiewicza Univ.	Poland
Anacapri	Italy
Anderson Mesa Station	Arizona (USA)
Anglo-Australian Obs.	Australia
Ankara	Turkey
Ankara Obs., Univ. of	Turkey
Ankara, Univ. of	Turkey
Ann Arbor	Michigan (USA)
Antares Obs.	Brazil
Apache Point Obs.	New Mexico (USA)
Arcetri Astrophysical Obs.	Italy
Archenhold Obs.	Germany
Arecibo	Puerto Rico
Arecibo Obs.	Puerto Rico
Argentine Radio Astronomy Inst.	Argentina
Århus	Denmark
Århus Univ.	Denmark
Arizona Univ. Obs., Northern	Arizona (USA)
Arizona Univ., Northern	Arizona (USA)
Arizona, Univ. of	Arizona (USA)
Armagh	United Kingdom
Armagh Obs.	United Kingdom
Arosa	Switzerland
Arosa Astrophysical Obs.	Switzerland
Arthur J. Dyer Obs.	Tennessee (USA)
Asiago	Italy
Asiago Astrophysical Obs.	Italy
Assoc. for Research in Ast., California (CARA)	Hawaii (USA)
Astronomical and Astrophysical Inst.	Belgium
Astronomical and Geophysical Inst.	Brazil
Astrophysical Inst. of the Canaries (IAC)	Spain
AT&T Bell Laboratories	New Jersey (USA)
Athens	Greece
Athens Kryonerion Station, National Obs. of	Greece
Athens Pentele Station, National Obs. of	Greece
Athens, National Obs. of	Greece
Atibaia	Brazil
Atlanta	Georgia (USA)
Auckland	New Zealand
Auckland Obs.	New Zealand
Austin	Texas (USA)
Australia Telescope National Facility	Australia
Australian National Radio Obs.	Australia
Australian National Univ.	Australia
Bagnères-de-Bigorre	France
Bailey (see Dick Mountain Station)	Colorado (USA)
Balcones Research Center	Texas (USA)
Bamberg	Germany
Bandung Inst. of Technology	Indonesia
Bangalore	India

Name	Location
Bappu Obs., Vainu	India
Barreal	Argentina
Barros Obs., Prof. Manuel de	Portugal
Barstow	California (USA)
Basle Univ. Astronomical Inst.	Switzerland
Basle, Univ. of	Switzerland
Bayrischzell	Germany
Behlen Obs.	Nebraska (USA)
Beijing	China (PRC)
Beijing Normal Univ.	China (PRC)
Beijing Normal Univ. Obs.	China (PRC)
Beijing Obs. Miyun Station	China (PRC)
Beijing Obs. Shahe Station	China (PRC)
Beijing Obs. Tianjing Station	China (PRC)
Beijing Obs. Xinglong Station	China (PRC)
Bell Laboratories, AT&T	New Jersey (USA)
Belo Horizonte	Brazil
Beloit	Wisconsin (USA)
Beloit College	Wisconsin (USA)
Bergedorf (see Hamburg Obs.)	Germany
Berkeley	California (USA)
Berlin	Germany
Berne	Switzerland
Berne Univ.	Switzerland
Besançon	France
Besançon Obs.	France
Besevler	Turkey
Bialkow Station	Poland
Bickley	Australia
Big Bear City	California (USA)
Big Bear Solar Obs.	California (USA)
Big Pine	California (USA)
Binningen	Switzerland
Bjornstorp (see Javan Station)	Sweden
Black Birch Station	New Zealand
Black Moshannon Obs.	Pennsylvania (USA)
Blenheim	New Zealand
Bloemfontein	South Africa
Bloomington	Indiana (USA)
Blue Mesa Station	New Mexico (USA)
Bochum	Germany
Bochum Obs.	Germany
Bogazici Univ.	Turkey
Bogotá	Colombia
Bohyunsan Obs.	Korea (ROK)
Bologna	Italy
Bologna Univ.	Italy
Bologna Univ. Obs.	Italy
Bonn	Germany
Bonn Univ. (see Hoher List Obs.)	Germany
Bonn Univ. (see Stockert Radio Obs.)	Germany
Boone (see Erwin W. Fick Obs.)	Iowa (USA)
Bordeaux Univ.	France
Bordeaux Univ. Obs.	France
Bornova-Izmir	Turkey
Borowiec	Poland
Bosque Alegre Astrophysical Station	Argentina
Bosscha Obs.	Indonesia
Boulder	Colorado (USA)
Bouzaréa	Algeria
Boyden Obs.	South Africa
Bradley Obs.	Georgia (USA)
Brannenburg (see Wendelstein Solar Obs.)	Germany
Bratislava	Slovakia
Brentwood	Tennessee (USA)
Brera-Milan Obs.-Merate	Italy
Brera-Milan Obs.-Milan	Italy
Brevard Community College	Florida (USA)
Brevard Community College Obs.	Florida (USA)
Bristol Springs (see C.E. Kenneth Mees Obs.)	New York (USA)
Brno	Czech Republic
Bro	Sweden
Broederstroom	South Africa
Bronson (see Rosemary Hill Obs.)	Florida (USA)
Brooklyn (see Goethe Link Obs.)	Indiana (USA)

Name	Location
Brorfelde	Denmark
Brown Univ.	Rhode Island (USA)
Brownsboro (see Moore Obs.)	Kentucky (USA)
Brussels	Belgium
Brussels, Open Univ. of	Belgium
Bucharest	Romania
Bucharest Obs.	Romania
Budapest	Hungary
Buenos Aires	Argentina
Bungendore (see Molonglo Radio Obs.)	Australia
Byurakan	Armenia
Byurakan Astrophysical Obs.	Armenia
Cagigal Obs.	Venezuela
Cagliari	Italy
Cagliari Obs.	Italy
Cairo	Egypt
Calán National Obs., Cerro	Chile
Calar Alto (see German Spanish Ast. Centre)	Spain
Calern Station	France
Calgary	Canada
Calgary, Univ. of	Canada
California Assoc. for Research in Ast. (CARA)	Hawaii (USA)
California Inst. of Technology	California (USA)
California Inst. of Technology	Hawaii (USA)
California State Univ.	California (USA)
California, Univ. of	Arizona (USA)
California, Univ. of	California (USA)
Calingasta	Argentina
Caltech Submillimeter Obs.	Hawaii (USA)
Cambridge	Massachusetts (USA)
Cambridge	United Kingdom
Cambridge Univ.	United Kingdom
Cambridge Univ. Observatories	United Kingdom
Canada-France-Hawaii Telescope Corp.	Hawaii (USA)
Cananea	Mexico
Canaries, Astrophysical Inst. of the (IAC)	Spain
Canberra (see Mount Stromlo Obs.)	Australia
Cantonal Obs.	Switzerland
Cape Town (see South African Obs.)	South Africa
Capilla de Caleu (see Cerro El Roble Obs.)	Chile
Capilla Peak Obs.	New Mexico (USA)
Capodimonte Obs.	Italy
Capoterra (see Cagliari Obs.)	Italy
Caracas	Venezuela
Carloforte	Italy
Carlos U. Cesco Station, Dr.	Argentina
Carnegie Institution of Washington	Chile
Carter Obs.	New Zealand
Carter Obs. Black Birch Station	New Zealand
Case Western Reserve Univ.	Arizona (USA)
Case Western Reserve Univ.	Ohio (USA)
Cassel	California (USA)
Castel Gandolfo	Vatican City State
Castleknock	Ireland
Catalina Station	Arizona (USA)
Catania Astrophysical Obs.	Italy
Catania Astrophysical Obs. Stellar Station	Italy
Catania	Italy
Catania Univ.	Italy
Catholic Univ.	Netherlands
Catholic Univ. Astronomical Inst.	Netherlands
Catholic Univ., Pontifical	Chile
Caussols	France
Cebreros	Spain
C.E.K. Mees Solar Obs.	Hawaii (USA)
C.E. Kenneth Mees Obs.	New York (USA)
Çengelköy	Turkey
Center for Astronomy and Space Science	Romania
Center for Astrophysics, Harvard-Smithsonian	Arizona (USA)
Center for Astrophysics, Harvard-Smithsonian	Massachusetts (USA)
Center for Astrophysics, Harvard-Smithsonian	Texas (USA)
Center for Radar Astronomy, Stanford	California (USA)
Center of Astronomical Investigation	Venezuela
Central Inst. for Astrophysics	Germany
Central Inst. for Earth Physics	Germany
Central Inst. for Solar-Terrestrial Physics	Germany
Central Methodist College	Missouri (USA)
Central Michigan Univ.	Michigan (USA)
Central Michigan Univ. Obs.	Michigan (USA)
Cerro Calán National Obs.	Chile
Cerro El Roble Obs.	Chile
Cerro La Silla (see European Southern Obs.)	Chile
Cerro Las Campanas (see Las Campanas Obs.)	Chile
Cerro Paranal	Chile
Cerro Tololo Inter-American Obs.	Chile
Cesco Station, Dr. Carlos U.	Argentina
Chabot Obs.	California (USA)
Chalmers Technical Univ.	Sweden
Chamberlin Obs.	Colorado (USA)
Chamberlin Obs. Dick Mountain Station	Colorado (USA)
Chaonis Obs.	Italy
Chapel Hill	North Carolina (USA)
Charles Univ.	Czech Republic
Charles Univ. Astronomical Inst.	Czech Republic
Charlottesville	Virginia (USA)
Chavannes-des-Bois	Switzerland
Chews Ridge (see MIRA Oliver Station)	California (USA)
Chicago, Univ. of	Wisconsin (USA)
Chilbolton	United Kingdom
Chilbolton Obs.	United Kingdom
Chile, Univ. of	Chile
Chimbas	Argentina
Chinese Academy of Sciences	China (PRC)
Chions	Italy
Chung-li	Taiwan (ROC)
Chungbuk	Korea (ROK)
Cincinnati	Ohio (USA)
Cincinnati Obs.	Ohio (USA)
Cincinnati, Univ. of	Ohio (USA)
City Obs.	United Kingdom
Cleveland	Arizona (USA)
Cleveland	Ohio (USA)
Climenhaga Obs.	Canada
Cluj-Napoca	Romania
Cluj-Napoca Obs.	Romania
Clyde W. Tombaugh Obs.	Kansas (USA)
Cocoa	Florida (USA)
Coimbra	Portugal
Coimbra Obs.	Portugal
Coimbra Univ.	Portugal
Cointe Obs.	Belgium
College Park	Maryland (USA)
Collurania Obs.	Italy
Colombia, National Univ. of	Colombia
Colorado Springs	Colorado (USA)
Colorado, Univ. of	Colorado (USA)
Columbia	South Carolina (USA)
Columbia Univ.	New York (USA)
Columbus	Ohio (USA)
Commonwealth Sci. & Ind. Rsch. Org. (CSIRO)	Australia
Communications Research Laboratory	Japan
Connecticut State Univ. Obs., Western	Connecticut (USA)
Connecticut State Univ., Western	Connecticut (USA)
Cook Obs., Flower and	Pennsylvania (USA)
Coonabarabran	Australia
Copenhagen	Denmark
Copenhagen Univ.	Denmark
Copenhagen Univ. Obs.-Brorfelde	Denmark
Copenhagen Univ. Obs.-Ostervold	Denmark
Copernicus Obs., Nicholas	Czech Republic
Copernicus Univ., Nicolaus	Poland
Córdoba	Argentina
Córdoba, National Univ. of	Argentina
Córdoba Obs.	Argentina
Córdoba Obs. Bosque Alegre Station	Argentina
Cornell Univ.	New York (USA)
Corralitos Obs.	New Mexico (USA)
Côte d'Azur Obs.	France
Côte d'Azur Obs. Calern Station	France

Name	Location
Cracow	Poland
Crane Obs., Zenas	Kansas (USA)
Crawford Hill Obs.	New Jersey (USA)
Crestwood	Kentucky (USA)
Crimea	Ukraine
Crimean Astrophysical Obs.-Partizanskoye	Ukraine
Crimean Astrophysical Obs.-Simeis	Ukraine
Cross Plains	Wisconsin (USA)
Culgoora (see Australia Tel. Natl. Facility)	Australia
Czech Republic Academy of Sciences	Czech Republic
Daeduk Radio Obs.	Korea (ROK)
Daegang	Korea (ROK)
Damecuta Obs.	Italy
Danbury	Connecticut (USA)
Dark Sky Obs.	North Carolina (USA)
Dartmouth College	New Hampshire (USA)
Daun	Germany
David Dunlap Obs.	Canada
Dearborn Obs.	Illinois (USA)
Debrecen	Hungary
Decatur	Georgia (USA)
Deep Space Station-Cebreros	Spain
Deep Space Station-Robledo	Spain
Deep Space Station-Tidbinbilla	Australia
Delaware	Ohio (USA)
Denver	Colorado (USA)
Denver, Univ. of	Colorado (USA)
Devon Obs.	Canada
Dexter (see Michigan Radio Obs., Univ. of)	Michigan (USA)
Dick Mountain Station	Colorado (USA)
Dodaira Obs.	Japan
Domaine Univ.	France
Dominion Astrophysical Obs.	Canada
Dominion Radio Astrophysical Obs.	Canada
Dr. Carlos U. Cesco Station	Argentina
Dresden	Germany
Dresden Technical Univ.	Germany
Dublin	Ireland
Dundee	United Kingdom
Dunlap Obs., David	Canada
Dunsink Obs.	Ireland
Dushanbe	Tadzhikistan
Dwingeloo	Netherlands
Dwingeloo Radio Obs.	Netherlands
Dyer Obs., Arthur J.	Tennessee (USA)
East Lansing	Michigan (USA)
Ebro Obs.	Spain
Edinburgh	United Kingdom
Edmonton	Canada
Effelsberg Radio Obs.	Germany
Ege Univ.	Turkey
Ege Univ. Obs.	Turkey
Einstein Tower Solar Obs.	Germany
EISCAT Kiruna Station	Sweden
EISCAT Sodankylä Station	Finland
EISCAT Tromsø Station	Norway
Elginfield Obs.	Canada
El Leoncito (see Dr. Carlos U. Cesco Station)	Argentina
El Leoncito Astronomical Complex	Argentina
El Roble Obs., Cerro	Chile
Engelhardt Obs.	Russia
Ensenada	Mexico
Erlangen-Nürnberg Univ.	Germany
Erwin W. Fick Obs.	Iowa (USA)
Eschweiler (see Stockert Radio Obs.)	Germany
Estonian Academy of Sciences	Estonia
European Incoherent Scatter Facility (EISCAT)	Finland
European Incoherent Scatter Facility (EISCAT)	Norway
European Incoherent Scatter Facility (EISCAT)	Sweden
European Southern Obs.	Chile
Evanston	Illinois (USA)
Fan Mountain Station	Virginia (USA)
Fayette	Missouri (USA)
Federal Inst. of Technology, Swiss	Switzerland
Federal Obs., Swiss	Switzerland
Federal Univ. of Minas Gerais	Brazil
Federal Univ. Rio Grande do Sol	Brazil
Feira de Santana	Brazil
Feira de Santana State Univ.	Brazil
Félix Aguilar Obs.	Argentina
Fernbank Obs.	Georgia (USA)
Fernbank Science Center	Georgia (USA)
Fesenkov Astrophysical Inst., V.G.	Kazakhstan
Fick Obs., Erwin W.	Iowa (USA)
Figl Astrophysical Obs., L.	Austria
FitzRandolph Obs.	New Jersey (USA)
Five College Radio Obs.	Massachusetts (USA)
Flagstaff	Arizona (USA)
Flagstaff Station	Arizona (USA)
Fleurs Radio Obs.	Australia
Floirac	France
Florence	Italy
Florence and George Wise Obs., The	Israel
Florence Univ.	Italy
Florida Radio Obs., Univ. of	Florida (USA)
Florida, Univ. of	Florida (USA)
Flower and Cook Obs.	Pennsylvania (USA)
Foerster Obs., Wilhelm	Germany
Forcalquier	France
Fort Davis	Texas (USA)
Fort Irwin (see Goldstone Complex)	California (USA)
Fort Skala Station	Poland
Foster Astrophysical Obs., Manuel	Chile
Fourier Univ., Joseph	France
Franklin Inst. Obs., The	Pennsylvania (USA)
Franklin Inst., The	Pennsylvania (USA)
Franzens Univ., Karl	Austria
Fred L. Whipple Obs.	Arizona (USA)
Freiburg-im-Breisgau	Germany
Friedrich Schiller Univ.	Germany
Friedrich Schiller Univ. Obs.	Germany
Friedrich Wilhelms Univ.	Germany
Fujigane Station	Japan
Gainesville	Florida (USA)
Gale Obs., Grant O.	Iowa (USA)
Gauribidanur Radio Obs.	India
Gemini North Obs.	Hawaii (USA)
Geneva Obs.	Switzerland
Geodetical Faculty Obs.	Croatia
George R. Agassiz Radio Station	Texas (USA)
George R. Wallace Jr. Astrophysical Obs.	Massachusetts (USA)
George Wise Obs., The Florence and	Israel
Georgia State Univ.	Georgia (USA)
Georgia Academy of Sciences	Georgia
German Spanish Astronomy Centre	Spain
Glasgow	United Kingdom
Glasgow Obs., Univ. of	United Kingdom
Glasgow, Univ. of	United Kingdom
Goddard Space Flight Center (GSFC)	Maryland (USA)
Godlee Obs.	United Kingdom
Goethe Link Obs.	Indiana (USA)
Goldstone Complex	California (USA)
Gornergrat North and South Obs.	Switzerland
Göttingen	Germany
Göttingen Univ.	Germany
Göttingen Univ. Obs.	Germany
Granada	Spain
Grant O. Gale Obs.	Iowa (USA)
Graz	Austria
Graz Obs., Univ. of	Austria
Graz, Univ. of	Austria
Graz, Univ. of (see Kanzelhöhe Solar Obs.)	Austria
Graz, Univ. of (see Lustbühel Obs.)	Austria
Green Bank	West Virginia (USA)
Greenbelt	Maryland (USA)
Greensboro	North Carolina (USA)

Name	Location
Greenville	Delaware (USA)
Grenoble	France
Grenoble Obs.	France
Grenoble Univ.	France
Griffith Obs.	California (USA)
Grinnell	Iowa (USA)
Grinnell College	Iowa (USA)
GSFC Optical Test Site	Maryland (USA)
Guadalajara	Spain
Guillermo Haro Astrophysical Obs.	Mexico
Gurushikhar Infrared Obs.	India
Gyula Station	Hungary

Name	Location
Hailsham	United Kingdom
Hale Solar Laboratory	California (USA)
Haleakala (see C.E.K. Mees Solar Obs.)	Hawaii (USA)
Haleakala (see LURE Obs.)	Hawaii (USA)
Hamburg	Germany
Hamburg Obs.	Germany
Hamburg, Univ. of	Germany
Hannover	Germany
Hannover Univ.	Germany
Hanover	New Hampshire (USA)
Hard Labor Creek Obs.	Georgia (USA)
Haro Astrophysical Obs., Guillermo	Mexico
Hartebeeshoek Radio Obs.	South Africa
Hartebeespoort (see Leiden Obs. Southern Station)	South Africa
Hartung-Boothroyd Obs.	New York (USA)
Harvard	Massachusetts (USA)
Harvard College Obs.	Massachusetts (USA)
Harvard-Smithsonian Center for Astrophysics	Arizona (USA)
Harvard-Smithsonian Center for Astrophysics	Massachusetts (USA)
Harvard-Smithsonian Center for Astrophysics	Texas (USA)
Hat Creek Radio Obs.	California (USA)
Haute-Provence, Obs. of	France
Haverford	Pennsylvania (USA)
Haverford College	Pennsylvania (USA)
Hawaii, Univ. of	Hawaii (USA)
Haystack Obs.	Massachusetts (USA)
Heidelberg	Germany
Heliophysical Obs.	Hungary
Heliophysical Obs. Gyula Station	Hungary
Helsinki	Finland
Helsinki Obs., Univ. of	Finland
Helsinki, Univ. of	Finland
Helsinki Univ. of Technology	Finland
Helsinki Univ. of Technology Metsähovi Station	Finland
Helwân	Egypt
Helwân Obs.	Egypt
Herstmonceux	United Kingdom
Hida Obs.	Japan
High Alpine Obs.	Switzerland
Hilo	Hawaii (USA)
Hiraiso Solar Terrestrial Research Center	Japan
Hobart	Australia
Hoeven	Netherlands
Hoher List Obs.	Germany
Holmdel	New Jersey (USA)
Honolulu	Hawaii (USA)
Hopkins Obs.	Massachusetts (USA)
Hoskinstown	Australia
Humain Radio Station	Belgium
Hungarian Academy of Sciences	Hungary
Hvar	Croatia
Hvar Obs.	Croatia
Hyderabad	India
Hydrographic Department, Japan	Japan

Name	Location
I.I. Mechnikov Univ.	Ukraine
Incline Village	Nevada (USA)
Incoherent Scatter Facility	Greenland
Indian Inst. of Astrophysics	India
Indiana Univ.	Indiana (USA)
Inst. for Astrophysics, Central	Germany
Inst. for Earth Physics, Central	Germany
Inst. for Radio Astronomy, Max Planck	Germany
Inst. for Research in Ast., Monterey (MIRA)	California (USA)
Inst. for Solar Physics, Kiepenheuer	Germany
Inst. for Solar-Terrestrial Physics, Central	Germany
Inst. of Astrophysics	Belgium
Inst. of Astrophysics	Tadzhikistan
Inst. of Astrophysics, Indian	India
Inst. of Astrophysics, National	Mexico
Inst. of Fundamental Research, Tata	India
Inst. of Geodesy and Geophysics	China (PRC)
Inst. of Geodesy Obs.	Germany
Inst. of Mining and Technology, New Mexico	New Mexico (USA)
Inst. of Radio Astronomy	Ukraine
Inst. of Science and Technology	Argentina
Inst. of Technology, Bandung	Indonesia
Inst. of Technology, California	California (USA)
Inst. of Technology, California	Hawaii (USA)
Inst. of Technology, Massachusetts (MIT)	Arizona (USA)
Inst. of Technology, Massachusetts (MIT)	Massachusetts (USA)
Inst. of Technology, Swiss Federal	Switzerland
Inst. of the Canaries, Astrophysical (IAC)	Spain
International Latitude Obs.	Italy
Iowa City	Iowa (USA)
Iowa Obs., Univ. of	Iowa (USA)
Iowa State Univ.	Iowa (USA)
Iowa, Univ. of	Iowa (USA)
Irkutsk	Russia
Irkutsk Obs.	Russia
Irkutsk State Univ.	Russia
Istanbul	Turkey
Istanbul Univ.	Turkey
Istanbul Univ. Obs.	Turkey
Itajubá	Brazil
Itapetinga Radio Obs.	Brazil
Ithaca	New York (USA)
Izaña (see Teide Obs.)	Spain

Name	Location
Jagellonian Univ.	Poland
Jagellonian Univ. Obs.	Poland
Jagellonian Univ. Obs. Fort Skala Station	Poland
Japal-Rangapur Obs.	India
Jävan Station	Sweden
Jelm Mountain (see Wyoming Infrared Obs.)	Wyoming (USA)
Jena	Germany
Jet Propulsion Laboratory (JPL)	Spain
Jodrell Bank	United Kingdom
Joint Astronomy Centre	Hawaii (USA)
Joint Obs. for Cometary Research	New Mexico (USA)
Joseph Fourier Univ.	France
Jungfraujoch (see High Alpine Obs.)	Switzerland
Junggak-li	Korea (ROK)

Name	Location
Kagoshima Space Center	Japan
Kaliningrad	Russia
Kaliningrad State Univ.	Russia
Kaliningrad Univ. Obs.	Russia
Kamiku Isshiki (see Fujigane Station)	Japan
Kamitakara	Japan
Kamogata-cho	Japan
Kamuela	Hawaii (USA)
Kandilli Obs.	Turkey
Kansas, Univ. of	Kansas (USA)
Kanzelhöhe Solar Obs.	Austria
Kapteyn Obs.	Netherlands
Karl Franzens Univ.	Austria
Karl Schwarzschild Obs.	Germany
Kashima	Japan
Kashima Space Communications Center	Japan
Kavalur	India
Kazan	Russia
Kazan State Univ.	Russia
Kazan Univ. Obs.	Russia
Keck Obs., W.M.	Hawaii (USA)
Kemps Creek (see Fleurs Radio Obs.)	Australia
Kenneth Mees Obs., C.E.	New York (USA)

Name	Location
Kharkov	Ukraine
Kharkov Univ. Obs.	Ukraine
Kharkov Univ.	Ukraine
Kiepenheuer Inst. for Solar Physics	Germany
Kiev	Ukraine
Kiev State Univ.	Ukraine
Kiev Univ. Obs.	Ukraine
Kingston	Australia
Kirkkonummi (see Metsahovi Obs.)	Finland
Kirkkonummi (see Metsahovi Radio Station)	Finland
Kiruna Station	Sweden
Kiruna	Sweden
Kislovodsk	Russia
Kislovodsk Solar Station	Russia
Kiso Obs.	Japan
Kitab	Uzbekistan
Kitt Peak (see McGraw Hill Obs.)	Arizona (USA)
Kitt Peak (see National Radio Obs.)	Arizona (USA)
Kitt Peak National Obs.	Arizona (USA)
Kitt Peak Station-Steward Obs.	Arizona (USA)
Kitt Peak Station-Warner and Swasey Obs.	Arizona (USA)
Kodaikanal	India
Kodaikanal Solar Obs.	India
Königstühl	Germany
Konkoly Obs.	Hungary
Konkoly Obs. Piszkéstetö Station	Hungary
Korea Obs.	Korea (ROK)
Kornik	Poland
Kottamia Obs.	Egypt
Krugersdorp	South Africa
Kryonerion Obs.	Greece
Kuffner Obs.	Austria
Kula	Hawaii (USA)
Kunming	China (PRC)
Kutztown	Pennsylvania (USA)
Kutztown Univ.	Pennsylvania (USA)
Kutztown Univ. Obs.	Pennsylvania (USA)
Kvistaberg Obs.	Sweden
Kwasan Obs.	Japan
Kylmälä	Finland
Kyoto	Japan
Kyoto Univ.	Japan
Kyoto Univ. Astronomy Department Obs.	Japan
Kyoto Univ. Physics Department Obs.	Japan
Kyungpook	Korea (ROK)

Name	Location
Laboratory for Astrophysics, National	Brazil
Ladd Obs.	Rhode Island (USA)
Lafayette (see Leuschner Obs.)	California (USA)
Lake Tekapo	New Zealand
Lake Traverse	Canada
La Laguna	Spain
La Mariquita Mtn. (see Guillermo Haro Aph. Obs.)	Mexico
Lane Cove	Australia
La Palma	Spain
La Plata	Argentina
La Plata, National Univ. of	Argentina
La Plata Obs.	Argentina
Laramie	Wyoming (USA)
Las Campanas Obs.	Chile
Las Cruces	New Mexico (USA)
La Serena	Chile
La Silla (see European Southern Obs.)	Chile
Latitude Obs.	Poland
Latvian Academy of Sciences	Latvia
Latvian State Univ.	Latvia
Latvian State Univ. Obs.	Latvia
Lausanne Obs., Univ. of	Switzerland
Lausanne, Univ. of	Switzerland
Lawrence	Kansas (USA)
Leander McCormick Obs.	Virginia (USA)
Leander McCormick Obs. Fan Mountain Station	Virginia (USA)
Leiden	Netherlands
Leiden National Univ.	Netherlands
Leiden Obs.	Netherlands
Leiden Obs. Southern Station	South Africa
Lembang	Indonesia
Leuschner Obs.	California (USA)
Lexington	Massachusetts (USA)
L. Figl Astrophysical Obs.	Austria
Lick Obs.	California (USA)
Liège	Belgium
Liège Univ.	Belgium
Lincoln	Nebraska (USA)
Link Obs., Goethe	Indiana (USA)
Lintong	China (PRC)
Lisbon	Portugal
Lisbon Obs.	Portugal
Llano del Hato Obs.	Venezuela
Lohrmann Obs.	Germany
Loiano (see Bologna Univ. Obs.)	Italy
Lomnicky Stít Coronal Obs.	Slovakia
London	Canada
London	United Kingdom
London Obs., Univ. of	United Kingdom
London, Univ. College	United Kingdom
Los Angeles	California (USA)
Los Molinos Obs.	Uruguay
Louis Pasteur Univ.	France
Louisville, Univ. of	Kentucky (USA)
Lowell Obs.	Arizona (USA)
Lowell Obs. Anderson Mesa Station	Arizona (USA)
Lund	Sweden
Lund Obs.	Sweden
Lund Obs. Jävan Station	Sweden
Lund Univ.	Sweden
LURE Obs.	Hawaii (USA)
Lustbühel Obs.	Austria
Lvov	Ukraine
Lvov State Univ.	Ukraine
Lvov Univ. Obs.	Ukraine
Lyon Univ.	France
Lyon Univ. Obs.	France

Name	Location
Macclesfield	United Kingdom
Mackenzie Univ.	Brazil
Maclean Obs.	Nevada (USA)
Madison	Wisconsin (USA)
Madrid	Spain
Main Obs.	Ukraine
Maipu	Chile
Maipu Radio Obs.	Chile
Malvern (see Flower and Cook Obs.)	Pennsylvania (USA)
Manastash Ridge Obs.	Washington (USA)
Manchester	United Kingdom
Manchester, Univ. of	United Kingdom
Manila	Philippine Islands
Manila Obs.	Philippine Islands
Manora Peak	India
Manuel de Barros Obs., Prof.	Portugal
Manuel Foster Astrophysical Obs.	Chile
Marche	Belgium
Maria Mitchell Obs.	Massachusetts (USA)
Marine-on-St. Croix (see O'Brien Obs.)	Minnesota (USA)
Maryland Obs., Univ. of	Maryland (USA)
Maryland Point Obs.	Maryland (USA)
Maryland, Univ. of	Maryland (USA)
Massachusetts Inst. of Technology (MIT)	Arizona (USA)
Massachusetts Inst. of Technology (MIT)	Massachusetts (USA)
Massachusetts, Univ. of	Massachusetts (USA)
Mauna Kea (see Caltech Submillimeter Obs.)	Hawaii (USA)
Mauna Kea (see Canada-France-Hawaii Tel. Corp.)	Hawaii (USA)
Mauna Kea (see Joint Astronomy Centre)	Hawaii (USA)
Mauna Kea (see W.M. Keck Obs.)	Hawaii (USA)
Mauna Kea Obs.	Hawaii (USA)
Max Planck Inst. for Radio Astronomy	Germany
Mazelspoort (see Boyden Obs.)	South Africa
McCormick Obs. Fan Mountain Station, Leander	Virginia (USA)
McCormick Obs., Leander	Virginia (USA)
McDonald Obs.	Texas (USA)

Name	Location
McGraw-Hill Obs.	Arizona (USA)
Mead (see Behlen Obs.)	Nebraska (USA)
Mechnikov Univ., I.I.	Ukraine
Medicina	Italy
Medicina Radio Obs.	Italy
Mees Obs., C.E. Kenneth	New York (USA)
Mees Solar Obs., C.E.K.	Hawaii (USA)
Melton Memorial Obs.	South Carolina (USA)
Menlo Park	California (USA)
Menlo Park	Greenland
Merate	Italy
Mérida	Venezuela
Methodist College, Central	Missouri (USA)
Metsähovi Obs.	Finland
Metsähovi Radio Station	Finland
Meudon	France
Meudon Obs.	France
Mexico City	Mexico
Mexico, National Univ. of	Mexico
Meyer-Womble Obs.	Colorado (USA)
Michigan Radio Obs., Univ. of	Michigan (USA)
Michigan State Univ.	Michigan (USA)
Michigan State Univ. Obs.	Michigan (USA)
Michigan Univ., Central	Michigan (USA)
Michigan Univ. Obs., Central	Michigan (USA)
Michigan, Univ. of	Michigan (USA)
Mickiewicza Univ., A.	Poland
Middletown	Connecticut (USA)
Milan	Italy
Mill Hill	United Kingdom
Millimeter Radio Astronomy Inst.	France
Millimeter Radio Astronomy Inst.	Spain
Millimeter Wave Obs.	Texas (USA)
Mills Obs.	United Kingdom
Millstone Hill Atmospheric Science Facility	Massachusetts (USA)
Millstone Hill Radar Obs.	Massachusetts (USA)
Minamimaki-mura	Japan
Minas Gerais, Federal Univ. of	Brazil
Minneapolis	Minnesota (USA)
Minnesota, Univ. of	Arizona (USA)
Minnesota, Univ. of	Minnesota (USA)
MIRA Oliver Station	California (USA)
Mitaka	Japan
Mitake	Japan
Mitchell Obs., Maria	Massachusetts (USA)
Mitzpe Ramon (see Florence & George Wise Obs.)	Israel
Miyun Station	China (PRC)
Mizusawa	Japan
Mizusawa Astrogeodynamics Obs.	Japan
MMT (Multiple-Mirror Telescope) Obs.	Arizona (USA)
Molonglo Radio Obs.	Australia
Monte Mario (see Rome Obs.)	Italy
Monterey	California (USA)
Monterey Inst. for Research in Ast. (MIRA)	California (USA)
Montevideo	Uruguay
Montevideo Obs.	Uruguay
Mont Mégantic Obs.	Canada
Montreal	Canada
Montreal, Univ. of	Canada
Montville (see Nassau Obs.)	Ohio (USA)
Moore Obs.	Kentucky (USA)
Moraes Obs., Abrahão de	Brazil
Morehead Obs.	North Carolina (USA)
Morrison Obs.	Missouri (USA)
Morro Santana Obs.	Brazil
Moscow	Russia
Moscow Univ.	Russia
Mount Abu	India
Mount Aragatz (see Byurakan Astrophysical Obs.)	Armenia
Mount Bigelow Station	Arizona (USA)
Mount Chikurin (see Okayama Astrophysical Obs.)	Japan
Mount Cuba Obs.	Delaware (USA)
Mount Dodaira (see Dodaira Obs.)	Japan
Mount Ekar Obs.	Italy
Mount Evans (see Meyer-Womble Obs.)	Colorado (USA)

Name	Location
Mount Graham (see Submillimeter Tel. Obs.)	Arizona (USA)
Mount Graham (see Vatican Obs. Research Group)	Arizona (USA)
Mount Hamilton	California (USA)
Mount Hopkins (see Fred L. Whipple/MMT Obs.)	Arizona (USA)
Mount John Univ.	New Zealand
Mount John Univ. Obs.	New Zealand
Mount Kanobili	Georgia
Mount Killini (see Kryonerion Obs.)	Greece
Mount Laguna Obs.	California (USA)
Mount Lemmon Infrared Obs.	Arizona (USA)
Mount Lemmon Station	Arizona (USA)
Mount Locke (see McDonald Obs.)	Texas (USA)
Mount Locke (see Millimeter Wave Obs.)	Texas (USA)
Mount Norikura	Japan
Mount Pleasant	Michigan (USA)
Mount Pleasant Radio Obs.	Australia
Mount Stromlo Obs.	Australia
Mount Suhora Obs.	Poland
Mount Wilson Obs.	California (USA)
Mount Zin (see Florence and George Wise Obs.)	Israel
Mountain Obs.	Kazakhstan
Mullard Radio Obs.	United Kingdom
Multiple-Mirror Telescope (MMT) Obs.	Arizona (USA)
Munich	Germany
Munich Univ.	Germany
Munich Univ. Obs.	Germany
Nagano	Japan
Nagoya	Japan
Nagoya Univ.	Japan
Nagoya Univ. Fujigane Station	Japan
Nagoya Univ. Radio Laboratory	Japan
Nagoya Univ. Sugadaira Station	Japan
Nagoya Univ. Toyokawa Station	Japan
Naini Tal	India
Nakaminato	Japan
Nançay Radio Station	France
Nanjing	China (PRC)
Nantucket	Massachusetts (USA)
Naples	Italy
Narrabri	Australia
Nassau Obs.	Ohio (USA)
National Air and Space Administration (NASA)	Maryland (USA)
National Astronomy and Ionosphere Center	Puerto Rico
National Central Univ.	Taiwan (ROC)
National Central Univ. Obs.	Taiwan (ROC)
National Centre for Radio Astrophysics	India
National Geophysical and Ast. Service	Philippine Islands
National Inst. of Astrophysics	Mexico
National Laboratory for Astrophysics	Brazil
National Obs.	Brazil
National Obs.	Colombia
National Obs.	Japan
National Obs.	Spain
National Obs.-Ensenada	Mexico
National Obs., Kitt Peak	Arizona (USA)
National Obs. of Athens	Greece
National Obs. of Athens Kryonerion Station	Greece
National Obs. of Athens Pentele Station	Greece
National Obs. of Cosmic Physics	Argentina
National Obs.-Tonantzintla	Mexico
National Radio Obs.	Arizona (USA)
National Radio Obs.	New Mexico (USA)
National Radio Obs.	West Virginia (USA)
National Radio Obs., Australian	Australia
National Research Council (NRC)	Canada
National Solar Obs.	New Mexico (USA)
National Univ., Australian	Australia
National Univ., Leiden	Netherlands
National Univ. of Colombia	Colombia
National Univ. of Córdoba	Argentina
National Univ. of La Plata	Argentina
National Univ. of Mexico	Mexico
National Univ. of San Juan	Argentina
Naval Obs.	Argentina

Name	Location
Naval Obs.	Spain
Naval Obs. Flagstaff Station, U.S.	Arizona (USA)
Naval Obs., U.S.	D.C. (USA)
Naval Research Laboratory (NRL)	D.C. (USA)
Naval Research Laboratory (NRL)	Maryland (USA)
Naval Research Laboratory (NRL)	West Virginia (USA)
Nebraska, Univ. of	Nebraska (USA)
Neuchâtel	Switzerland
Neuvy Sur Barangeon	France
Nevada College, Sierra	Nevada (USA)
New Mexico Inst. of Mining and Technology	New Mexico (USA)
New Mexico State Univ.	New Mexico (USA)
New Mexico Univ. Obs. Blue Mesa Station	New Mexico (USA)
New Mexico Univ. Obs. Tortugas Mtn. Station	New Mexico (USA)
New Mexico, Univ. of	New Mexico (USA)
New Salem (see Five College Radio Obs.)	Massachusetts (USA)
New York	New York (USA)
New York	Spain
Nicholas Copernicus Obs.	Czech Republic
Nicolaus Copernicus Univ.	Poland
Nijmegen	Netherlands
Nikolaev	Ukraine
Nikolaev Obs.	Ukraine
Nizamiah Obs.	India
Nobeyama	Japan
Nobeyama Cosmic Radio Obs.	Japan
Nobeyama Solar Radio Obs.	Japan
Norikura Solar Obs.	Japan
North Carolina, Univ. of	North Carolina (USA)
Northeast Radio Obs. Corporation	Massachusetts (USA)
Northern Arizona Univ.	Arizona (USA)
Northern Arizona Univ. Obs.	Arizona (USA)
North Gornergrat Obs.	Switzerland
North Liberty	Iowa (USA)
North Liberty Radio Obs.	Iowa (USA)
Northwestern Univ.	Illinois (USA)
Northwestern Univ.	New Mexico (USA)
NRL Radio Obs.	D.C. (USA)
NRL Radio Obs.	West Virginia (USA)
Nuffield Radio Laboratories	United Kingdom
Oakland	California (USA)
Oak Ridge Obs.	Massachusetts (USA)
O'Brien Obs.	Minnesota (USA)
Obs. of Haute-Provence	France
Odessa	Ukraine
Odessa Obs.	Ukraine
Ohio State Univ.	Ohio (USA)
Ohio Wesleyan Univ.	Ohio (USA)
Okayama Astrophysical Obs.	Japan
Old Town (see Florida Radio Obs., Univ. of)	Florida (USA)
Ole Rømer Obs.	Denmark
Oliver Station	California (USA)
Ondrejov	Czech Republic
Ondrejov Obs.	Czech Republic
Onsala	Sweden
Onsala Space Obs.	Sweden
Ontario, Univ. of Western	Canada
Ootacamund	India
Open Univ. of Brussels	Belgium
Optical Test Site	Maryland (USA)
Orange Free State, Univ. of the	South Africa
Osmania Univ.	India
Ostervold	Denmark
Ostrowik (see Warsaw Univ. Obs.)	Poland
Ottawa	Canada
Ottawa River Solar Obs.	Canada
Owens Valley Radio Obs.	California (USA)
Padua	Italy
Padua Obs.	Italy
Padua Univ.	Italy
Pagasa Obs.	Philippine Islands
Palermo	Italy
Palermo Univ.	Italy
Palermo Univ. Obs.	Italy
Palo Alto (see Stanford Center for Radar Ast.)	California (USA)
Palomar Mountain	California (USA)
Palomar Obs.	California (USA)
Paranal Obs.	Chile
Paris	France
Paris Obs.	France
Paris Obs. Meudon Station	France
Paris Obs. Nançay Station	France
Parkes	Australia
Partizanskoye	Ukraine
Pasadena	California (USA)
Pasadena	Spain
Pasteur Univ., Louis	France
Pennsylvania State Univ.	Pennsylvania (USA)
Pennsylvania, Univ. of	Pennsylvania (USA)
Pentele Station	Greece
Penticton	Canada
Perkins Obs.	Ohio (USA)
Perth Obs.	Australia
Philadelphia	Pennsylvania (USA)
Physical Research Laboratory	India
Pic du Midi Obs.	France
Pico dos Dias Obs.	Brazil
Pico Veleta (see Millimeter Radio Ast. Inst.)	Spain
Piedade Obs.	Brazil
Piikkiö	Finland
Pine Bluff Obs.	Wisconsin (USA)
Pino Torinese	Italy
Piszkéstetö Station	Hungary
Pittsburgh	Pennsylvania (USA)
Pittsburgh, Univ. of	Pennsylvania (USA)
Piwnice Obs.	Poland
Plateau de Bure (see Grenoble Obs.)	France
Plateau de Bure (see Millimeter Radio Ast. Inst.)	France
Polish Academy of Sciences	Poland
Pontifical Catholic Univ.	Chile
Porto Alegre	Brazil
Porto Univ.	Portugal
Potsdam	Germany
Potsdam Astrophysical Obs.	Germany
Poznan	Poland
Poznan Univ.	Poland
Poznan Univ. Obs.	Poland
Prague	Czech Republic
Priddis (see Rothney Astrophysical Obs.)	Canada
Princeton	New Jersey (USA)
Princeton Univ.	New Jersey (USA)
Prof. Manuel de Barros Obs.	Portugal
Prostejov	Czech Republic
Prostejov Obs.	Czech Republic
Providence	Rhode Island (USA)
Pulkovo	Russia
Pulkovo Obs.	Russia
Pulkovo Obs. Kislovodsk Station	Russia
Purple Mountain Obs.	China (PRC)
Quezon City	Philippine Islands
Quito	Ecuador
Quito Obs.	Ecuador
Radio Astronomy Center	India
Ramfjordbotn	Norway
Ramon Maria Aller Obs.	Spain
Rattlesnake Mtn. (see Black Moshannon Obs.)	Pennsylvania (USA)
Remeis Obs.	Germany
Richmond Hill	Canada
Riga	Latvia
Riga Radio-Astrophysical Obs.	Latvia
Rio de Janeiro	Brazil
Rio Grande do Sol, Federal Univ.	Brazil
Ritter Obs.	Ohio (USA)
Riverside (see Iowa Obs., Univ. of)	Iowa (USA)
Riverside (see Maryland Point Obs.)	Maryland (USA)
Riverview College Obs.	Australia

Name	Location
Robledo	Spain
Rochester	New York (USA)
Rochester, Univ. of	New York (USA)
Roden	Netherlands
Rome	Italy
Rome Obs.	Italy
Rømer Obs., Ole	Denmark
Roque de los Muchachos Obs.	Spain
Roquetas	Spain
Rosemary Hill Obs.	Florida (USA)
Rothney Astrophysical Obs.	Canada
Royal Obs.	Belgium
Royal Obs. Edinburgh	United Kingdom
Royal Obs. Humain Radio Station	Belgium
Russian Academy of Sciences	Russia
Rutherfurd Obs.	New York (USA)
Rutledge (see Hard Labor Creek Obs.)	Georgia (USA)
Sacramento Peak	New Mexico (USA)
Sagamore Hill Radio Obs.	Massachusetts (USA)
Saint Andrews	United Kingdom
Saint Andrews Obs., Univ. of	United Kingdom
Saint Andrews, Univ. of	United Kingdom
Saint Corona at Schöpfl (see L. Figl Aph. Obs.)	Austria
Saint Genis Laval	France
Saint Ignatius College	Australia
Saint Martin d'Hères	France
Saint Michel (see Obs. of Haute-Provence)	France
Saint Petersburg	Russia
Saint Petersburg Univ. Obs.	Russia
Saint Vallier-de-Thiey	France
Saitama	Japan
Saltsjöbaden	Sweden
San Diego	California (USA)
San Diego State Univ.	California (USA)
San Fernando	Spain
San Fernando Obs.	California (USA)
San Juan	Argentina
San Juan, National Univ. of	Argentina
San Juan-Yale Universities	Argentina
San Miguel	Argentina
San Pedro Martir (see National Obs.-Ensenada)	Mexico
Santa Cruz	Spain
Santana Obs., Morro	Brazil
Santiago	Chile
Santiago de Compostela	Spain
Santiago de Compostela Univ.	Spain
San Vittore Obs.	Italy
São Paulo	Brazil
São Paulo, Univ. of	Brazil
Satellite Laser Ranger Group	United Kingdom
Sauverny	Switzerland
Saxapahaw (see Three College Obs.)	North Carolina (USA)
Sayan Mountains Radiophysical Obs.	Russia
Schauinsland Obs.	Germany
Schiller Univ., Friedrich	Germany
Schiller Univ. Obs., Friedrich	Germany
Schöneberg	Germany
Schwarzschild Obs., Karl	Germany
Scott College, Agnes	Georgia (USA)
Seattle	Washington (USA)
Sendai	Japan
Sendai Obs.	Japan
Serra la Nave (see Stellar Station)	Italy
Shaanxi Obs.	China (PRC)
Shahe Station	China (PRC)
Shanghai	China (PRC)
Shanghai Obs. Sheshan Station	China (PRC)
Shanghai Obs. Xujiahui Station	China (PRC)
Shattuck Obs.	New Hampshire (USA)
Sheshan	China (PRC)
Sheshan Station	China (PRC)
Siding Spring Mtn. (see Anglo-Australian Obs.)	Australia
Siding Spring Obs.	Australia
Sierra Nevada College	Nevada (USA)
Simeis	Ukraine
Simon Stevin Obs.	Netherlands
Simosato	Japan
Simosato Hydrographic Obs.	Japan
Sirahama	Japan
Sirahama Hydrographic Obs.	Japan
Skalnaté Pleso Obs.	Slovakia
Skibotn	Norway
Skibotn Obs.	Norway
Slovak Academy of Sciences	Slovakia
Slovak Technical Univ.	Slovakia
Slovak Technical Univ. Obs.	Slovakia
Sobaeksan Obs.	Korea (ROK)
Socorro	New Mexico (USA)
Sodankylä	Finland
Sodankylä Station	Finland
Sommers-Bausch Obs.	Colorado (USA)
Søndre Strømfjord (see Incoherent Scatter Fac.)	Greenland
Sonneberg	Germany
Sonneberg Obs.	Germany
Sonnenborgh Obs.	Netherlands
South African Obs.	South Africa
South African Obs. Sutherland Station	South Africa
South Canterbury	New Zealand
South Carolina Radio Obs., Univ. of	South Carolina (USA)
South Carolina, Univ. of	South Carolina (USA)
Southern Station	South Africa
South Gornergrat Obs.	Switzerland
South Hamilton	Massachusetts (USA)
South Park (see Tiara Obs.)	Colorado (USA)
Special Astrophysical Obs.	Russia
Sproul Obs.	Pennsylvania (USA)
SRI Radio Obs.	California (USA)
Stanford	California (USA)
Stanford Center for Radar Astronomy.	California (USA)
Stanford Research Inst. (SRI, Intl.)	California (USA)
Stanford Research Inst. (SRI, Intl.)	Greenland
Stanford Univ.	California (USA)
Stanford Univ. Radio Astronomy Inst.	California (USA)
State Obs.	Germany
Stavropolskij Kraj	Russia
Stellar Station	Italy
Stephanion	Greece
Stephanion Obs.	Greece
Sternberg State Astronomical Inst.	Russia
Stevin Obs., Simon	Netherlands
Steward Obs.	Arizona (USA)
Steward Obs. Catalina Station	Arizona (USA)
Steward Obs. Kitt Peak Station	Arizona (USA)
Steward Obs. Mount Bigelow Station	Arizona (USA)
Steward Obs. Mount Lemmon Station	Arizona (USA)
Steward Obs. Tumamoc Hill Station	Arizona (USA)
Stockbridge	United Kingdom
Stockert Radio Obs.	Germany
Stockholm Obs.	Sweden
Stockholm Univ.	Sweden
Strasbourg	France
Strasbourg Obs.	France
Strawbridge Obs.	Pennsylvania (USA)
Struve Astrophysical Obs., Wilhelm	Estonia
Stuttgart Obs.	Germany
Subaru Telescope	Hawaii (USA)
Submillimeter Obs., Caltech	Hawaii (USA)
Submillimeter Telescope Obs.	Arizona (USA)
Sugadaira Station	Japan
Sugar Grove	West Virginia (USA)
Sunspot	New Mexico (USA)
Sutherland Station	South Africa
Swabian Obs.	Germany
Swarthmore	Pennsylvania (USA)
Swarthmore College	Pennsylvania (USA)
Swiss Federal Inst. of Technology	Switzerland
Swiss Federal Obs.	Switzerland
Sydney	Australia
Sydney, Univ. of	Australia

Name	Location
Sylmar	California (USA)
Syracuse	New York (USA)
Syracuse Univ.	New York (USA)
Syracuse Univ. Obs.	New York (USA)
Table Mountain Obs.	California (USA)
Tadzhik Academy of Sciences	Tadzhikistan
Taejeon	Korea (ROK)
Tähtitorninmäki	Finland
Taipei	Taiwan (ROC)
Taipei Obs.	Taiwan (ROC)
Tamil Nadu	India
Tartu	Estonia
Tashkent	Uzbekistan
Tashkent Obs.	Uzbekistan
Tasmania, Univ. of	Australia
Tata Inst. of Fundamental Research	India
Tata Inst. Radio Astronomy Center	India
Tatranská Lomnica	Slovakia
Tautenburg	Germany
Teide Obs.	Spain
Tel Aviv	Israel
Tel Aviv Univ.	Israel
Tenerife	Spain
Teramo	Italy
Texas, Univ. of	Texas (USA)
Thessaloníki	Greece
Thessaloníki Obs., Univ. of	Greece
Thessaloníki, Univ. of	Greece
Thompson Obs.	Wisconsin (USA)
Three College Obs.	North Carolina (USA)
Tianjing Latitude Station	China (PRC)
Tiara Obs.	Colorado (USA)
Tidbinbilla	Australia
Tohoku Univ.	Japan
Tohoku Univ. Obs.	Japan
Tokyo	Japan
Tokyo Hydrographic Obs.	Japan
Tokyo, Univ. of	Japan
Toledo	Ohio (USA)
Toledo, Univ. of	Ohio (USA)
Tølløse	Denmark
Tololo Inter-American Obs., Cerro	Chile
Tombaugh Obs., Clyde W.	Kansas (USA)
Tomsk	Russia
Tomsk State Univ.	Russia
Tomsk Univ. Obs.	Russia
Tonantzintla	Mexico
Topeka	Kansas (USA)
Toronto, Univ. of	Canada
Tortugas Mountain Station	New Mexico (USA)
Torun	Poland
Toulouse	France
Toulouse Univ.	France
Toulouse Univ. Obs.	France
Toyokawa	Japan
Toyokawa Obs.	Japan
Toyokawa Station	Japan
Treffen	Austria
Tremsdorf	Germany
Tremsdorf Radio Obs.	Germany
Trieste	Italy
Trieste Obs.	Italy
Tromsø Station	Norway
Tromsø, Univ. of	Norway
Tübingen	Germany
Tübingen Univ.	Germany
Tübingen Univ. Obs.	Germany
Tucson	Arizona (USA)
Tumamoc Hill Station	Arizona (USA)
Tuorla	Finland
Tuorla Obs.	Finland
Turin Obs.	Italy
Turku, Univ. of	Finland
Tuscaloosa	Alabama (USA)

Name	Location
Uccle (see Royal Obs.)	Belgium
Uchinoura (see Kagoshima Space Center)	Japan
Udhagamandalam	India
Ukrainian Academy of Sciences	Ukraine
Uluk-Bek Latitude Station	Uzbekistan
University Park	Pennsylvania (USA)
Uppsala Univ.	Sweden
Urania Obs.	Austria
Urania Obs.	Hungary
Urumqi	China (PRC)
Urumqi Station	China (PRC)
U.S. Air Force Academy	Colorado (USA)
U.S. Air Force Academy Obs.	Colorado (USA)
U.S. Naval Obs.	D.C. (USA)
U.S. Naval Obs. Flagstaff Station	Arizona (USA)
Utrecht	Netherlands
Uttar Pradesh State Obs.	India
Vainu Bappu Obs.	India
Valasské Mezirící	Czech Republic
Valasské Mezirící Obs.	Czech Republic
Valinhos (see Abrahão de Moraes Obs.)	Brazil
Valongo Obs.	Brazil
Vanderbilt Univ.	Tennessee (USA)
Van Vleck Obs.	Connecticut (USA)
Vatican Obs.	Vatican City State
Vatican Obs. Research Group	Arizona (USA)
V.G. Fesenkov Astrophysical Inst.	Kazakhstan
Victoria	Canada
Victoria, Univ. of	Canada
Vienna	Austria
Vienna Univ.	Austria
Vienna Univ. Obs.	Austria
Vila Nova de Gaia	Portugal
Villa Elisa	Argentina
Villanova	Pennsylvania (USA)
Villanova Univ.	Pennsylvania (USA)
Villanova Univ. Obs.	Pennsylvania (USA)
Vilnius	Lithuania
Vilnius Obs.	Lithuania
Vilnius Univ.	Lithuania
Virginia, Univ. of	Virginia (USA)
Wallace Jr. Astrophysical Obs., George R.	Massachusetts (USA)
Warner and Swasey Obs.	Ohio (USA)
Warner and Swasey Obs. Kitt Peak Station	Arizona (USA)
Warsaw	Poland
Warsaw Univ.	Poland
Warsaw Univ. Obs.	Poland
Washburn Obs.	Wisconsin (USA)
Washburn Univ.	Kansas (USA)
Washington	D.C. (USA)
Washington	Maryland (USA)
Washington, Univ. of	Washington (USA)
Wasosz (see Bialkow Station)	Poland
Wellesley	Massachusetts (USA)
Wellesley College	Massachusetts (USA)
Wellington	New Zealand
Wendelstein Solar Obs.	Germany
Wesleyan Univ.	Connecticut (USA)
Westerbork Radio Obs.	Netherlands
Western Connecticut State Univ.	Connecticut (USA)
Western Connecticut State Univ. Obs.	Connecticut (USA)
Western Ontario Obs., Univ. of	Canada
Westford	Massachusetts (USA)
Westford (see George R. Wallace Jr. Aph. Obs.)	Massachusetts (USA)
Westford (see Millstone Hill Radar Obs.)	Massachusetts (USA)
Westford Antenna Facility	Massachusetts (USA)
Weston Creek	Australia
Whaam-dong	Korea (ROK)
Whipple Obs., Fred L.	Arizona (USA)
Whitin Obs.	Massachusetts (USA)
Wilhelm Foerster Obs.	Germany
Wilhelm Struve Astrophysical Obs.	Estonia

Name	Location
Wilhelms Univ., Friedrich	Germany
Williams Bay	Wisconsin (USA)
Williams College	Massachusetts (USA)
Williamstown	Massachusetts (USA)
Wisconsin, Univ. of	Wisconsin (USA)
Wise Obs., The Florence and George	Israel
W.M. Keck Obs.	Hawaii (USA)
Wrightwood	California (USA)
Wroclaw	Poland
Wroclaw Univ.	Poland
Wroclaw Univ. Bialkow Station	Poland
Wroclaw Univ. Obs.	Poland
Wuchang	China (PRC)
Wuchang Time Obs.	China (PRC)
Wuhan (see Wuchang Time Obs.)	China (PRC)
Wyoming Infrared Obs.	Wyoming (USA)
Wyoming, Univ. of	Wyoming (USA)
Xian	China (PRC)
Xinglong Station	China (PRC)
Xujiahui Station	China (PRC)
Yale-San Juan Universities	Argentina
Yebes Astronomical Center	Spain
Yerkes Obs.	Wisconsin (USA)
Yunnan Obs.	China (PRC)
Zagreb	Croatia
Zagreb Univ.	Croatia
Zelenchukskaya	Russia
Zenas Crane Obs.	Kansas (USA)
Zermatt (see Gornergrat North and South Obs.)	Switzerland
Zhdanov State Univ., A.A.	Russia
Zi-Ka-We	China (PRC)
Zimmerwald Obs.	Switzerland
Zô-Sè	China (PRC)
Zürich	Switzerland
Zwiggelte	Netherlands

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